CD AUTO CHANGER

KDC-C63FM **REVISED**

SERVICE MANUAL

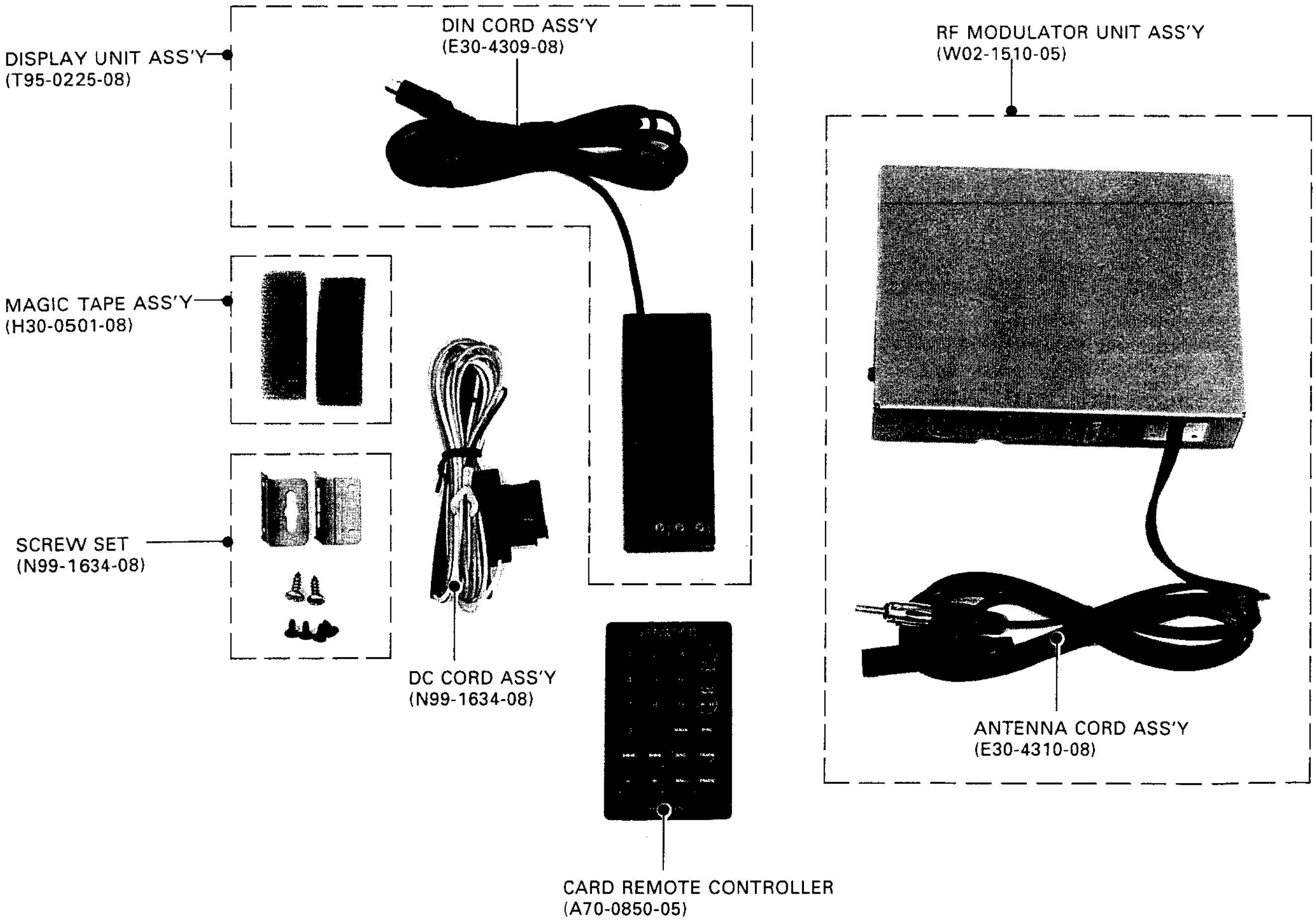
KENWOOD

©1995-11 PRINTED IN JAPAN

B51-6924-00(MC) 844

Card remote controller, Display unit ass'y and RF modurator unit ass'y have been changing from SERIAL No. 50900001~

CD changer unit is not changed, so if necessary to check CD changer unit, please see service manual KDC-C63FM (B51-6857-00).


DISPLAY UNIT ASS'Y
(T95-0225-08)
DIN CORD ASS'Y
(E30-4309-08)
RF MODULATOR UNIT ASS'Y
(W02-1510-05)
MAGIC TAPE ASS'Y
(H30-0501-08)
SCREW SET
(N99-1634-08)
DC CORD ASS'Y
(N99-1634-08)
ANTENNA CORD ASS'Y
(E30-4310-08)
CARD REMOTE CONTROLLER
(A70-0850-05)

KDC-C63FM

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CONTENTS

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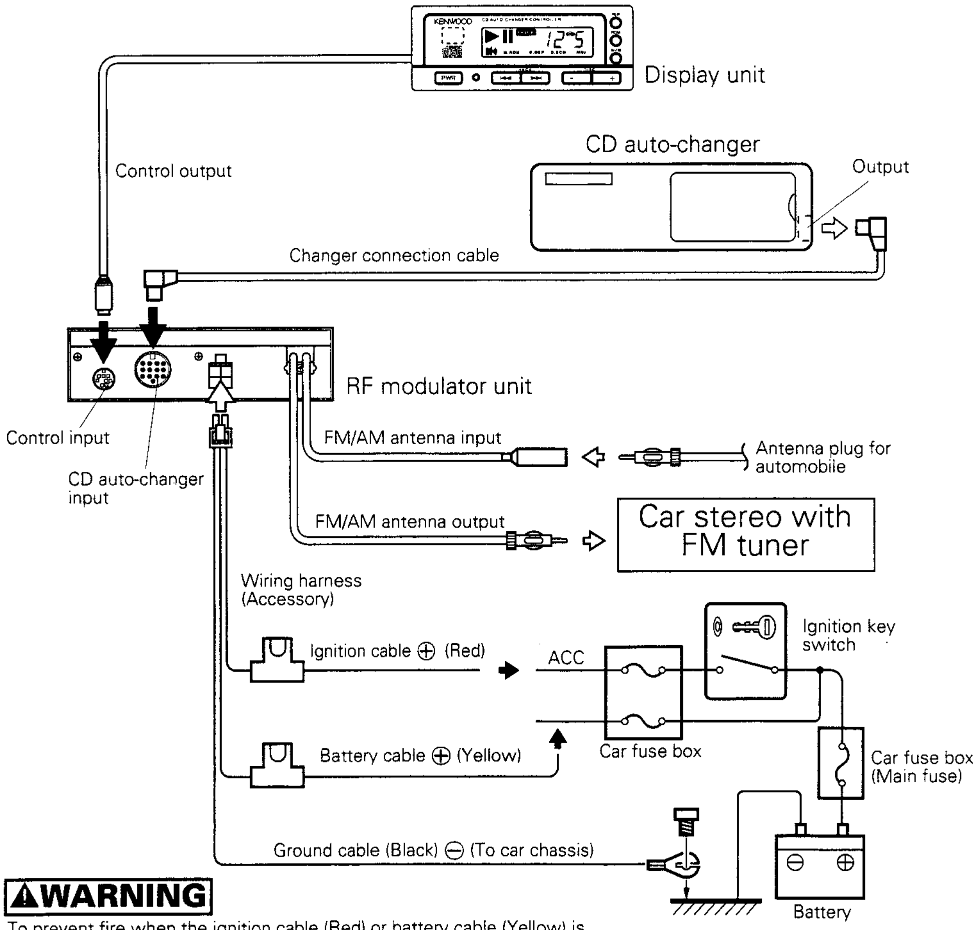
CONNECTIONS

Connections



Display unit
CD auto-changer
Output
Control output
Changer connection cable
RF modulator unit
Control input
CD auto-changer input
FM/AM antenna input
Antenna plug for automobile
FM/AM antenna output
Car stereo with FM tuner
Wiring harness (Accessory)
Ignition key switch
Ignition cable ⊕ (Red)
ACC
Battery cable ⊕ (Yellow)
Car fuse box
Car fuse box (Main fuse)
Ground cable (Black) ⊖ (To car chassis)
Battery

⚠WARNING

To prevent fire when the ignition cable (Red) or battery cable (Yellow) is short-circuited by coming into contact with the vehicle chassis (ground), only connect the power supply after making the fuse box connections.

KDC-C63FM

TROUBLESHOOTING GUIDE

Often, what appears to be a malfunction is due to user error. Before calling for service please consult the following table.

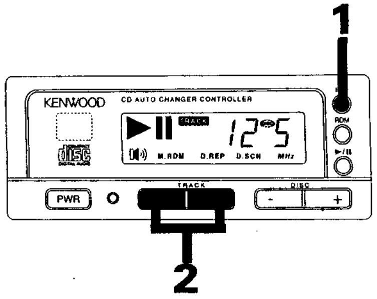
Symptom	Cause	Remedy
The power is not turned on.	The wiring harness fuse blows.	Check cables for shorts, then replace the fuse with one of with the same rating (shown on the case).
No sound or sound is low.	The volume level is minimum.	Raise the volume level.
	The fader or balance is set to one side.	Adjust the fader and balance.
	The input/output cable or wiring harness is connected incorrectly.	Connect the input/output cable or wiring harness correctly. See "Connections" (Page 23).
The unit does not work properly when a button is pressed.	The microcomputer malfunctions.	Press the Reset button of the display unit.
Sound quality is poor. (Sound distortion)	The volume level is too high.	Use the appropriate volume level.
CD play does not start.	CD auto-changer input is not connected to the unit.	Connect the CD auto-changer input to the unit.
	Power button is not turned ON.	Turn the power button ON.
The specified disc is not played; a different disc is played instead.	The specified disc is very dirty.	Check and, if possible, clean the disc. See "Cleaning your discs" (Page 6).
	The disc is loaded upside down.	Eject the disc magazine and insert the disc correctly.
	Two discs are inserted in a slot.	Eject the disc magazine and insert the discs correctly.
	The number of the slot into which the disc is inserted is different from the number of the specified disc.	Eject the disc magazine and check the number of the specified disc.
	The disc is severely damaged.	Use another disc.
Sound skips due to vibration.	Something is touching the CD auto-changer.	Keep it away from the CD auto-changer.
	The disc is dirty or damaged.	If sound skips at the same part, the disc is faulty. Check and, if possible, clean the disc. See "Cleaning your discs" (Page 6).
	The unit is mounted at a slant.	Mount the unit so that is level.
	Changer unit is mounted in an unstable place.	Mount the unit in a stable place.
	The angle adjustment switches are set improperly.	Set the angle adjustment switches to the correct positions.
Nothing appears on the display.	The control output of the display unit is not connected properly.	Connect the control output properly.
Sound distortion.	A disc with a high recording level is used.	See Page 21. Change the modulation level / dynamic control setting.
Sound quality is poor.	The recording of the disc is poor.	Try playing another disc. If the sound is good, the fault was with the original disc.
	The disc is dirty or damaged.	Check and, if possible, clean the disc. See "Cleaning your discs (Page 6)".
No sound is heard even though the information concerning the CD auto-changer is displayed.	Volume is set to minimum level.	Raise the volume level.
	The microcomputer does not function correctly.	Press the Reset button of the display unit.
	The system is not connected properly.	Connect the system properly. See "Connections" (Page 23).
The specified track is not played.	The player is set to RANDOM PLAY/MAGAZINE RANDOM PLAY.	Turn off RANDOM PLAY/MAGAZINE RANDOM PLAY.

In some cases, you may see one of the following error messages on your unit's display.

01 E:	No disc magazine in changer. Disc magazine is not inserted properly. ➪Insert the disc magazine properly.
02 E:	No disc in disc magazine. ➪Load a disc in the disc magazine.
04 E:	Disc is too dirty. The disc is upside down. The disc is damaged. ➪Clean the disc and insert it correctly.
99 E:	The unit malfunctions due to a defective CD mechanism. Press the Reset button. If the "99 E" message does not disappear, contact your Kenwood dealer.
0d E:	When the temperature exceeds 60°C, a protection circuit will stop all operations. This message will then be displayed. ➪Let the place where the changer is located cool down. As soon as it has cooled, the changer starts playing.

DC-C63FM

CHANGING THE TRANSMISSION FREQUENCY, MODULATION LEVEL/DYNAMIC CONTROL


1
2
KENWOOD
CD AUTO CHANGER CONTROLLER
TRACK
M.RDM
D.REP
D.SCN
MHz
RDM
▶/II
PWR
DISC
-
+

1 To set the frequency change mode

Hold down the REP button on the display unit for more than three seconds.

The FREQ indicator will light up and the currently set frequency will be displayed.

FREQ
88.3
MHz

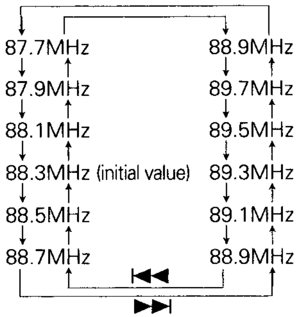
NOTE

- The initial value is 88.3MHz.
- If this function is on, the functions other than power on / off, reset, and modulation level / dynamic control, cannot be operated.
- This function is not available when the random play, repeat play, or scan play function is on. Before using this function, cancel the other functions. This function cannot be used while loading a disc (while the play indicator is blinking).

2 To change the frequency

Press the ⏮ or ⏭ button on the display unit.

The transmission frequency will change as follows:


87.7MHz
87.9MHz
88.1MHz
88.3MHz (initial value)
88.5MHz
88.7MHz
88.9MHz
89.7MHz
89.5MHz
89.3MHz
89.1MHz
88.9MHz
⏮
⏭

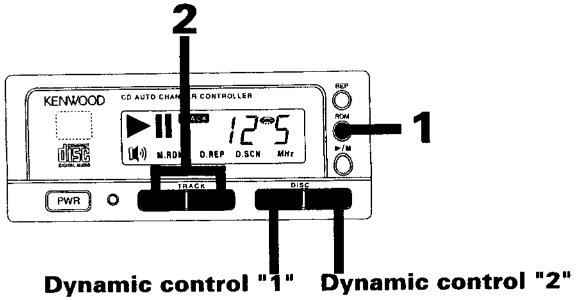
NOTE

Some car radios cannot receive a 87.7 MHz frequency.

To cancel

Hold down the REP button on the display unit for more than three seconds.

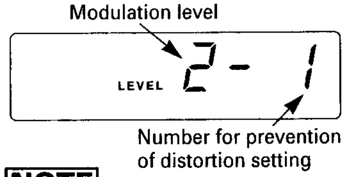
The FREQ indicator will go off and the frequency change will take effect. The frequency change mode is automatically cancelled if you do nothing for 15 seconds.


2
1
KENWOOD
CD AUTO CHANGER CONTROLLER
M.RDM
D.REP
D.SCN
MHz
REP
RDM
▶/II
PWR
TRACK
DISC
Dynamic control "1"
Dynamic control "2"

1 To set the control mode

Hold down the RDM button on the display unit for more than three seconds.

The LEVEL indicator will light up and the currently set modulation level will be displayed.


Modulation level
LEVEL
2 - 1
Number for prevention of distortion setting

NOTE

- If this function is on, the functions other than power on / off, reset, and changing the transmission frequency, cannot be operated.
- This function is not available when the random play, repeat play, or scan play function is on. Before using this function, cancel the other functions. This function cannot be used while loading a disc (while the play indicator is blinking).

2 To change the modulation level

Press the ⏮ or ⏭ button on the display unit.

Each time the button is pressed, the modulation level changes in the range from 1 to 4. As the number increases, the modulation level increases. The initial setting is 2.

NOTE

Dynamic control

The unit comes with the prevention of distortion function to reduce sound distortion.

If the sound is distorted severely, press the + button on the display unit and then set the function to "2" (ON).

If the prevention of distortion function is set to "2" (ON), the sound extension is reduced.

The initial setting is "1" (OFF).

⚠CAUTION

If a disc with a high recording level is used, the sound may distort even if the prevention of distortion function is set to "2" (ON). In this case, reduce the modulation level.

To cancel

Hold down the RDM button on the display unit for more than three seconds.

The LEVEL indicator will go off and the modulation level change will take effect. The control mode is automatically cancelled if you do nothing for 15 seconds.

MICROCOMPUTER'S TERMINAL DESCRIPTION

(RF MODULATOR UNIT) IC2: LC72329-8979

Terminal description

Pin	Port	Function	I/O	Operation	During HOLD
1	XIN	XIN	I	4.5 MHz X-tal	
2	TEST 2	——	I	(Connected to GND.)	
3	PG3	GND	I		—
4	PG2	GND	I		—
5	PG1	GAIN SEL	I	Fixed at Vss. (Modulation output stage switching selection terminal.)	—
6	PG0		I	Connected to GND.	—
7	PH3		O	Not use.	Open
8	PH2		O	Not use.	Open
9	PH1		O	Not use.	Open
10	PH0	MUTE1	O	Open. (Muting output terminal 1 for tuner frequency variation.)	L (in 15 sec.) H
11	PF3	MUTE2	O	Open. (Muting output terminal 2 for tuner frequency variation.)	L (in 15 sec.) H
12	PF2	$\overline{\mathrm{REQC}}$	I	CD Changer REQC.	H
13	PF1	$\overline{\mathrm{REQH}}$	O	CD Changer REQH.	H
14	PF0	CHCON	O	CD Changer ON.	L
15	PE3	DATA IN	I	CD Changer DATA in.	—
16	PE2	DATA OUT	O	CD Changer DATA out.	—
17	PE1	$\overline{\mathrm{SCK}}$	I	CD Changer DATA SCK.	H
18	PE0		O	Not use.	L
19	PD3	LCD DATA OUT	O	LCD Driver DATA out.	L
20	PD2	LCD CLK	O	LCD Driver CLK out.	L
21	PD1	LCD RST	O	LCD Driver Reset out.	L
22	PD0	LCD CE	O	LCD Driver CE out.	L
23	PC3		O	Not use.	L
24	PC2		O	Not use.	L
25	PC1		O	Not use.	L
26	PC0	SEPA	O	Separation.	L
27	PB3		O	Not use.	L
28	PB2		O	Not use.	L
29	PB1	GAIN1	O	Modulation output switching.	L
30	PB0	GAIN2	O	Modulation output switching.	L
31	Vdd	Vdd	—	5 V.	
32	PA3	LCD DATA IN	I	LCD Driver DATA in.	—
33	PA2		I	Connected to GND.	—
34	PA1		I	Connected to GND.	—
35	PA0		I	Connected to GND.	—
36~58	S28~6		O	Not use.	L
59	S5	ALC LOW	O		L
60	S4	MUTE	O	Muting output terminal for tuner frequency variation.	L
61	S3	SEP ATT	O	Separation.	L
62	S2	RELAY	O	Antenna relay control output terminal.	L
63	S1	Pon	O	P-on.	L
64,65	COM2, 1	COM2, 1	O	Not use.	L
66	$\overline{\mathrm{INT}}$	$\overline{\mathrm{REMO\ INT}}$	I	Remote control signal input.	

MICROCOMPUTER'S TERMINAL DESCRIPTION

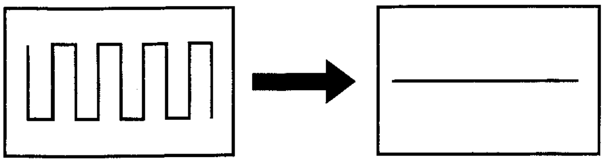
(RF MODULATOR UNIT) IC2: LC72329-8979

Pin	Port	Function	I/O	Operation	During HOLD
67	$\overline{\text{HOLD}}$	$\overline{\text{HOLD}}$	I	Acc detection. (Can also be made negative-going with the Reset SW.)	Released with ↑
68	$\overline{\text{RES}}$	$\overline{\text{RESET}}$	I	Connected to Vdd.	
69	ADI		I	Connected to GND.	
70	HCTR		I	Connected to GND.	
71	LCTR		I	Connected to GND.	
72	$\overline{\text{SNS}}$		I	Connected to GND.	
73	Vdd	Vdd	—	5 V.	
74	FM IN	FM IN	I	VCO input.	
75	AM IN		I	Connected to GND.	
76	Vss	Vss	—	Connected to GND.	
77	EO1	EO1	O	Phase detector error output.	
78	EO2	EO2	O	Not use.	
79	TEST1		I	(Connected to GND.)	
80	XOUT	XOUT	O	4.5 MHz X-tal.	

ADJUSTMENT : RF MODULATOR

1. DC balance adjustment (VR301)

While observing the waveform with a oscilloscope at pin 13 of IC301, adjust VR301 to minimize the waveform level.



Make almost linear.

2. PLL control voltage adjustment (VC301)

First set the transmission frequency to 87.7 MHz with the commander, then adjust VC301 so that the DC voltage at the + pole of C317, measured using a multimeter or digital tester, is + 3 V (± 0.1 V).

3. Modulation level adjustment (VR303)

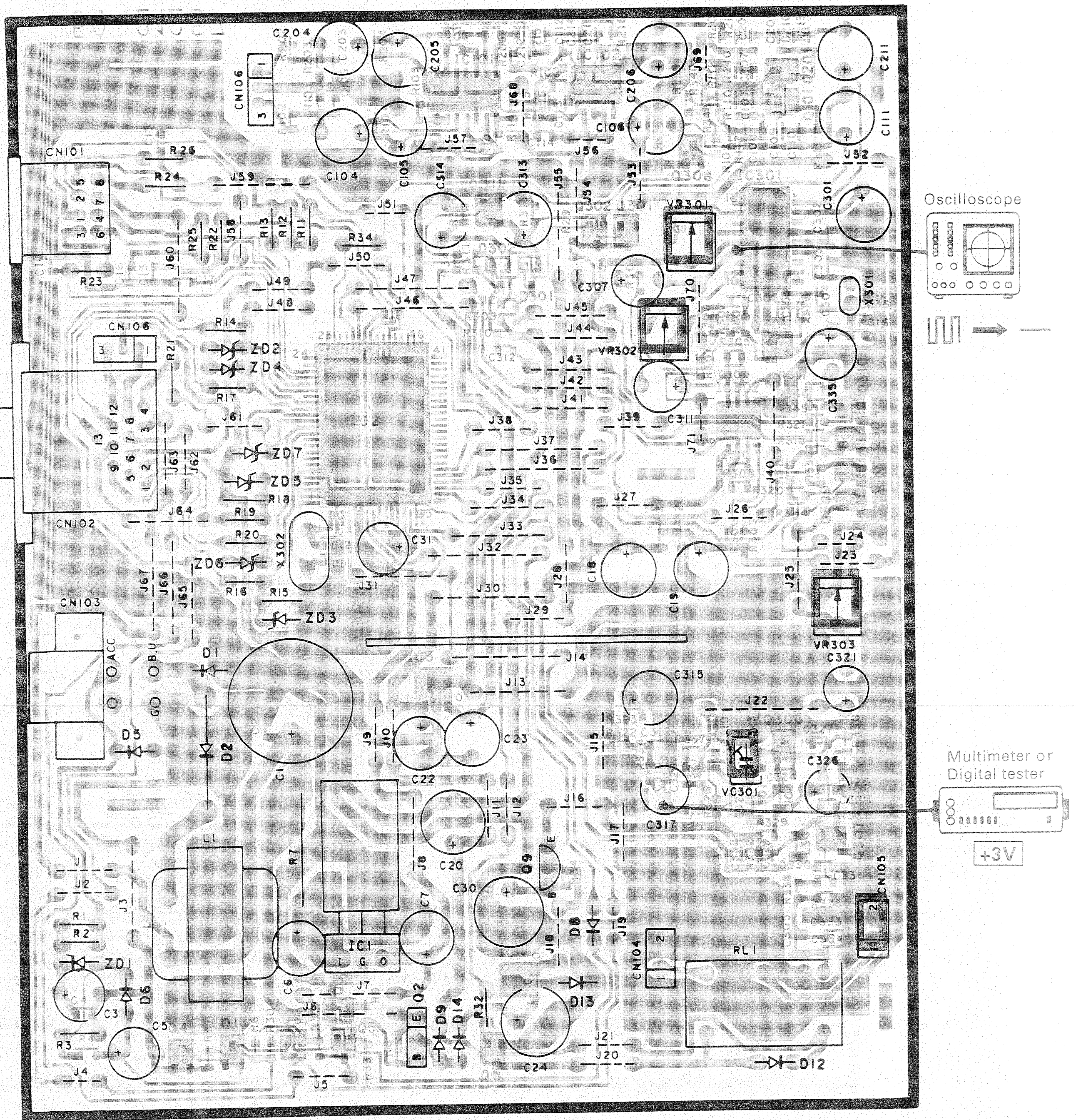
The method using a standard receiver or tuner.

Adjust VR303 so that the output level from the standard receiver or tuner is as specified. The positions of the VRs and switches should be set prior to this adjustment.

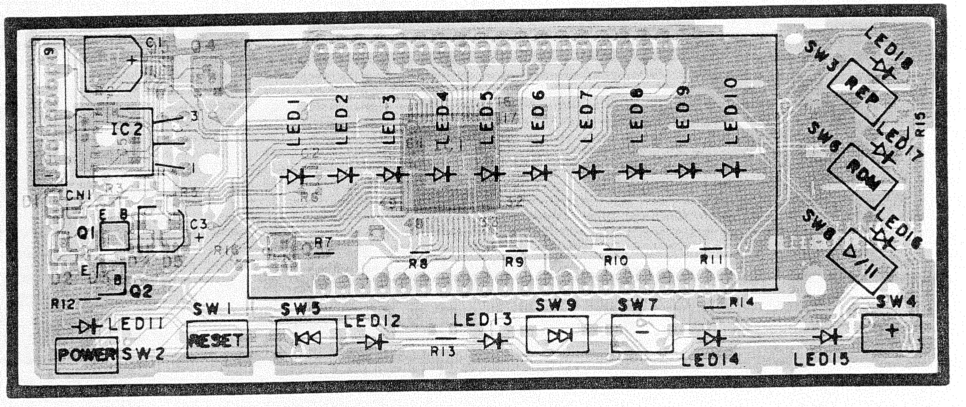
A B C D E

PC BOARD (Component side view)

RF MODULATOR UNIT (W02-1510-05)


DISP INPUT
CD-CH INPUT
POWER INPUT
CN101
CN102
CN103
CN104
CN105
CN106
IC1
IC2
VR301
VR302
VR303
VC301
X301
X302
L1
RL1
ZD1
ZD2
ZD3
ZD4
ZD5
ZD6
ZD7
D1
D2
D5
D6
D8
D9
D12
D13
D14
Q2
Q9
Q306
C1
C3
C5
C6
C7
C18
C19
C20
C22
C23
C24
C30
C31
C104
C105
C106
C111
C204
C205
C206
C211
C301
C307
C311
C312
C313
C314
C315
C317
C321
C326
C335
R1
R2
R3
R7
R11
R12
R13
R14
R15
R16
R17
R18
R19
R20
R21
R22
R23
R24
R25
R26
R32
R341
ACC
BU
GO
Oscilloscope
Multimeter or Digital tester
+3V

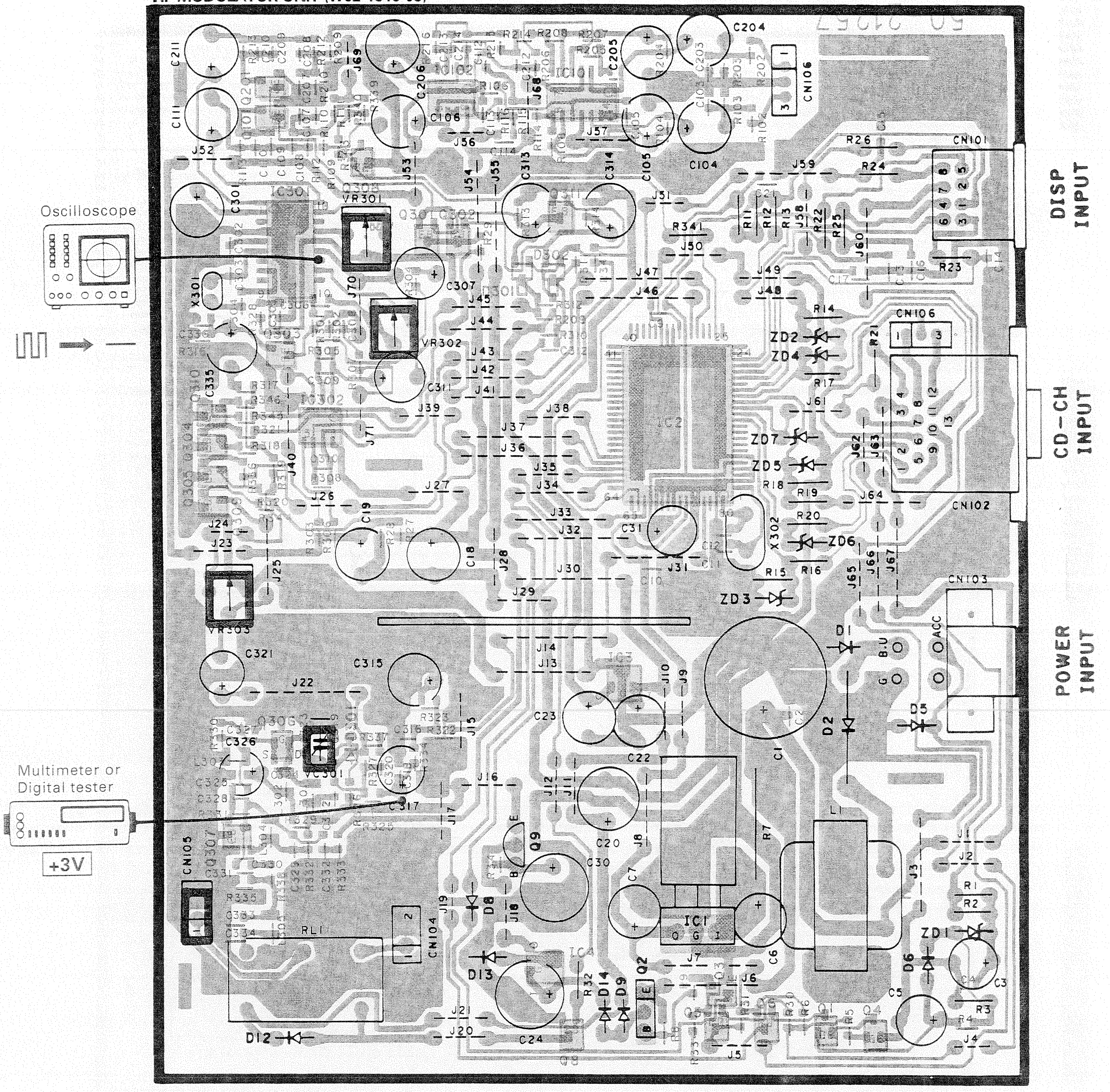
DISPLAY UNIT (T95-0225-08)


IC2
CN1
Q1
Q2
C1
C3
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
LED9
LED10
LED11
LED12
LED13
LED14
LED15
LED16
LED17
LED18
R7
R8
R9
R10
R11
R12
R13
R14
R15
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
POWER
RESET
REP
RDM

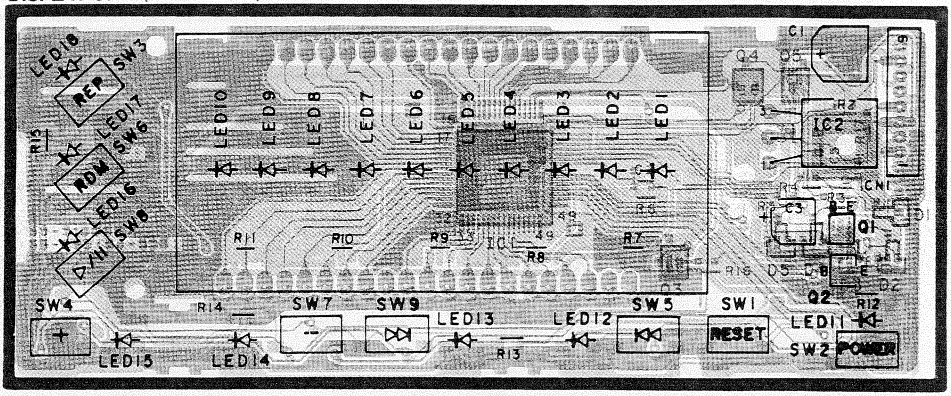
1
2
3
4
5
6
7

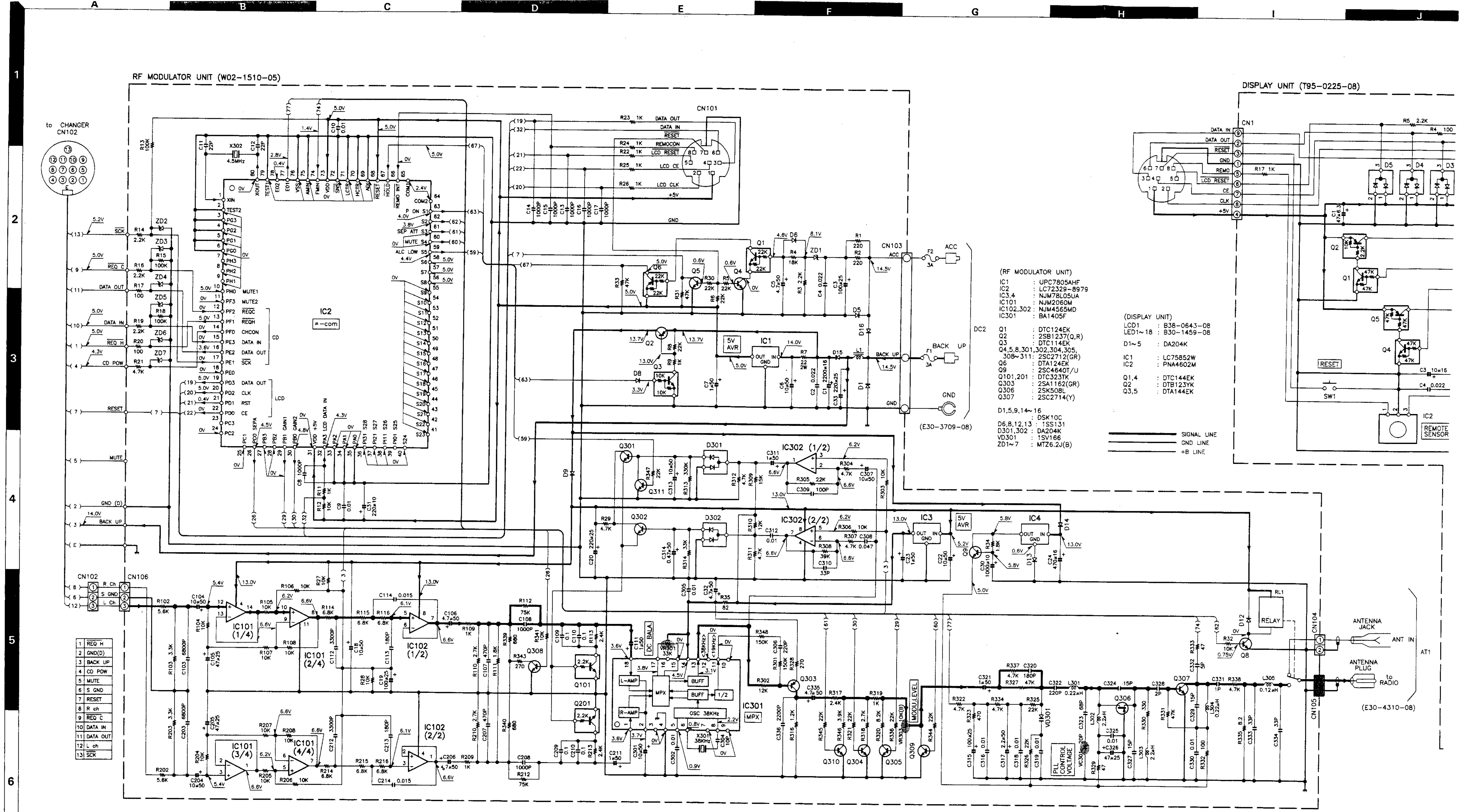
PC BOARD (Foil side view)

RF MODULATOR UNIT (W02-1510-05)


Oscilloscope
Multimeter or
Digital tester
+3V
DISP INPUT
CD-CH INPUT
POWER INPUT
CN101
CN106
CN102
CN103
CN104
CN105
IC1
IC2
IC301
IC302
VR301
VR302
VR303
VC301
X301
X302
RL1
B.U
G
ACC

DISPLAY UNIT (T95-0225-08)


REP
RDM
▷/II
RESET
POWER
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
LED9
LED10
LED11
LED12
LED13
LED14
LED15
LED16
LED17
LED18
IC1
IC2
CN1


A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
RF MODULATOR UNIT (W02-1510-05)
DISPLAY UNIT (T95-0225-08)
to CHANGER CN102
IC2
μ-com
CN101
CN103
ACC
BACK UP
GND
(E30-3709-08)
DC2
5V AVR
IC1
IC3
IC4
IC101 (1/4)
IC101 (2/4)
IC101 (3/4)
IC101 (4/4)
IC102 (1/2)
IC102 (2/2)
IC301
MPX
IC302 (1/2)
IC302 (2/2)
DC BALA
MODU.LEVEL
PLL CONTROL VOLTAGE
OSC 38KHz
L-AMP
R-AMP
BUFF
RELAY
RL1
CN104
CN105
ANTENNA JACK
ANT IN
ANTENNA PLUG
to RADIO
AT1
(E30-4310-08)
CN1
SW1
RESET
REMOTE SENSOR
CN102
CN106
R Ch
S GND
L Ch

1	$\overline{\text{REQ H}}$
2	GND(D)
3	BACK UP
4	CD POW
5	MUTE
6	S GND
7	RESET
8	R ch
9	$\overline{\text{REQ C}}$
10	DATA IN
11	DATA OUT
12	L ch
13	$\overline{\text{SCK}}$

(RF MODULATOR UNIT)

IC1	UPC7805AHF
IC2	LC72329-8979
IC3,4	NJM78L05UA
IC101	NJM2060M
IC102,302	NJM4565MD
IC301	BA1405F
Q1	DTC124EK
Q2	2SB1237(Q,R)
Q3	DTC114EK
Q4,5,8,301,302,304,305, 308~311	2SC2712(GR)
Q6	DTA124EK
Q9	2SC4640T/U
Q101,201	DTC323TK
Q303	2SA1162(GR)
Q306	2SK508L
Q307	2SC2714(Y)
D1,5,9,14~16	DSK10C
D6,8,12,13	1SS131
D301,302	DA204K
VD301	1SV166
ZD1~7	MTZ6.2J(B)

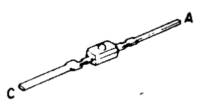
(DISPLAY UNIT)

LCD1	B38-0643-08
LED1~18	B30-1459-08
D1~5	DA204K
IC1	LC75852W
IC2	PNA4602M
Q1,4	DTC144EK
Q2	DTB123YK
Q3,5	DTA144EK

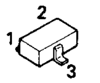
SIGNAL LINE
GND LINE
+B LINE

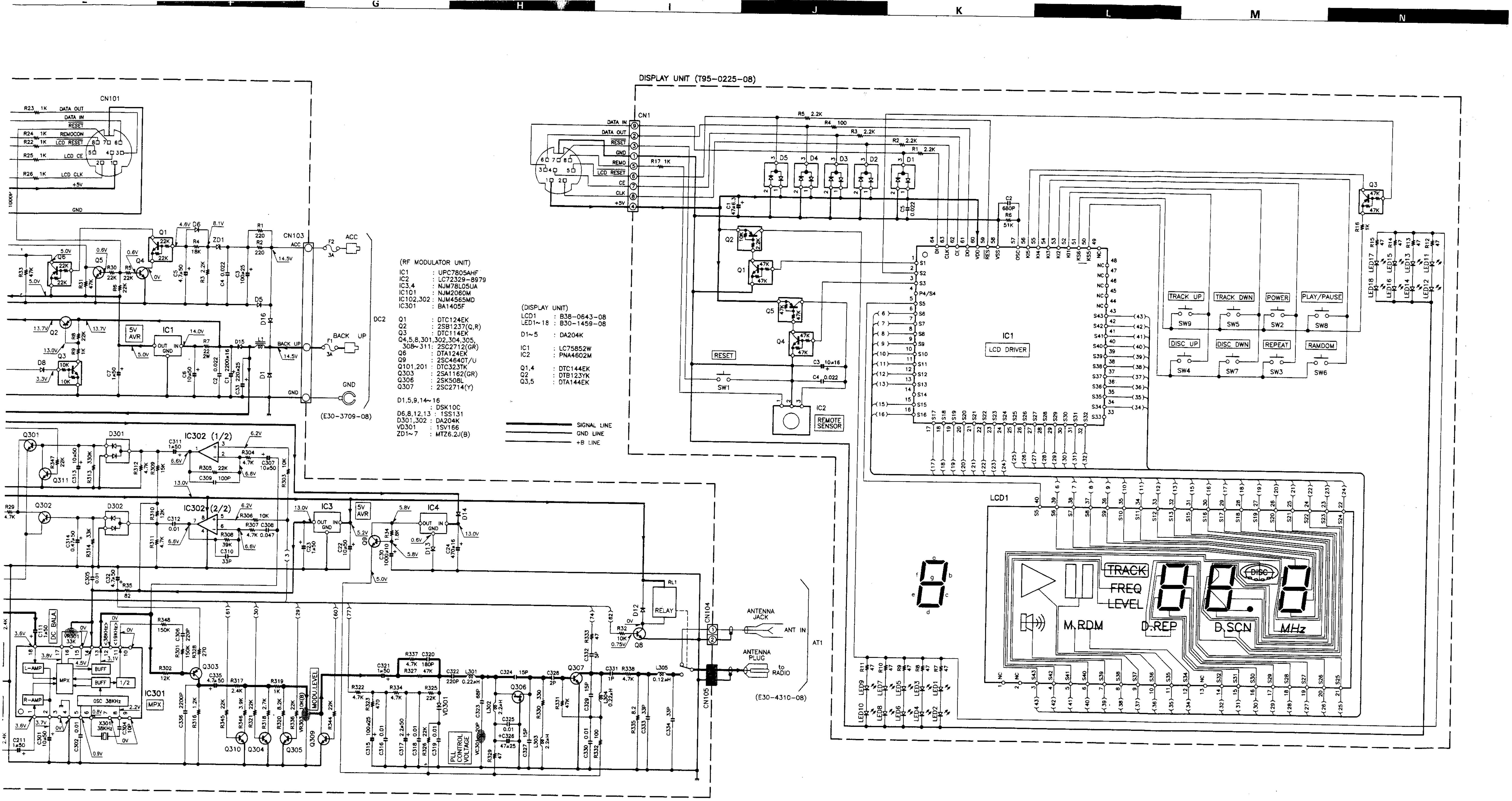
DC voltages are
Values may vary
ments or/and unit

1SV166



DA204K




G
H
I
J
K
L
M
N
DISPLAY UNIT (T95-0225-08)
CN101
CN103
CN1
CN104
CN105
DATA OUT
DATA IN
RESET
REMOCON
LCD RESET
LCD CE
LCD CLK
+5V
GND
ACC
BACK UP
DC2
(E30-3709-08)
5V AVR
IC1
IC3
IC4
IC302 (1/2)
IC302 (2/2)
IC301
MPX
L-AMP
R-AMP
BUFF
1/2
OSC 38KHz
DC BALA
MODU.LEVEL
PLL CONTROL VOLTAGE
RELAY
RL1
ANTENNA JACK
ANT IN
ANTENNA PLUG
to RADIO
AT1
(E30-4310-08)
RESET
SW1
IC2
REMOTE SENSOR
IC1
LCD DRIVER
TRACK UP
TRACK DWN
POWER
PLAY/PAUSE
SW9
SW5
SW2
SW8
DISC UP
DISC DWN
REPEAT
RAMDOM
SW4
SW7
SW3
SW6
LCD1
TRACK
FREQ
LEVEL
DISC
M.RDM
D.REP
D.SCN
MHz

(RF MODULATOR UNIT)

IC1 : UPC7805AHF
IC2 : LC72329-8979
IC3,4 : NJM78L05UA
IC101 : NJM2060M
IC102,302 : NJM4565MD
IC301 : BA1405F

Q1 : DTC124EK
Q2 : 2SB1237(Q,R)
Q3 : DTC114EK
Q4,5,8,301,302,304,305, 308~311 : 2SC2712(GR)
Q6 : DTA124EK
Q9 : 2SC4640T/U
Q101,201 : DTC323TK
Q303 : 2SA1162(GR)
Q306 : 2SK508L
Q307 : 2SC2714(Y)

D1,5,9,14~16 : DSK10C
D6,8,12,13 : 1SS131
D301,302 : DA204K
VD301 : 1SV166
ZD1~7 : MTZ6.2J(B)

(DISPLAY UNIT)

LCD1 : B38-0643-08
LED1~18 : B30-1459-08

D1~5 : DA204K

IC1 : LC75852W
IC2 : PNA4602M

Q1,4 : DTC144EK
Q2 : DTB123YK
Q3,5 : DTA144EK

SIGNAL LINE
GND LINE
+B LINE

KDC-C63FM REVISED

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

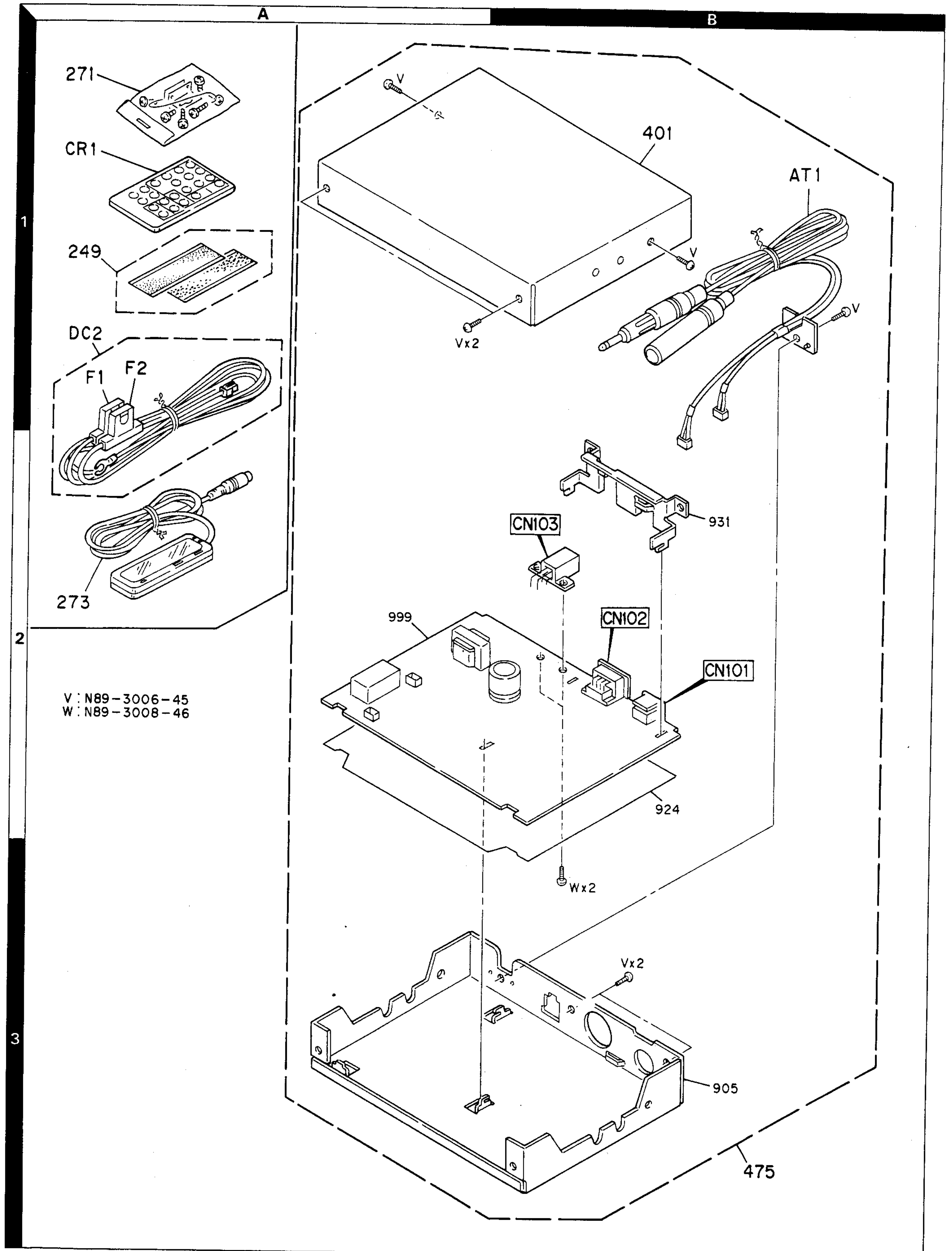
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KDC-C63FM

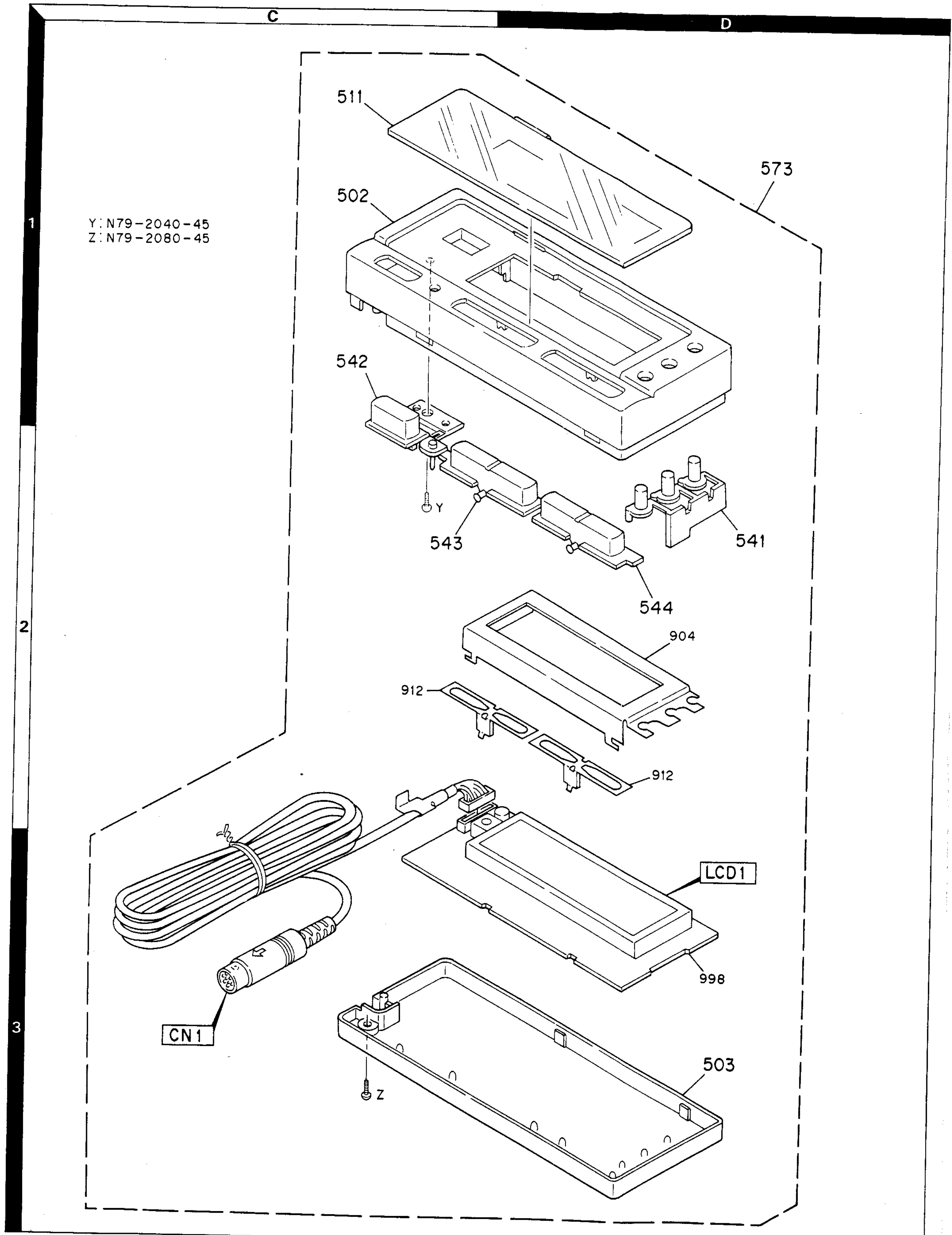
KENWOOD

Y22-5230-62

EXPLODED VIEW (RF MODULATOR UNIT)


A
B
1
2
3
271
CR1
249
DC2
F1
F2
273
V : N89-3006-45
W : N89-3008-46
V
401
AT1
V
Vx2
V
931
CN103
CN102
CN101
999
924
Wx2
Vx2
905
475

EXPLODED VIEW (DISPLAY UNIT)


C
D
1
2
3
Y : N79-2040-45
Z : N79-2080-45
511
573
502
542
Y
543
541
544
904
912
912
LCD1
998
CN1
503
Z

⁎ New Parts
Parts without
Les articles n
Teile ohne Parl

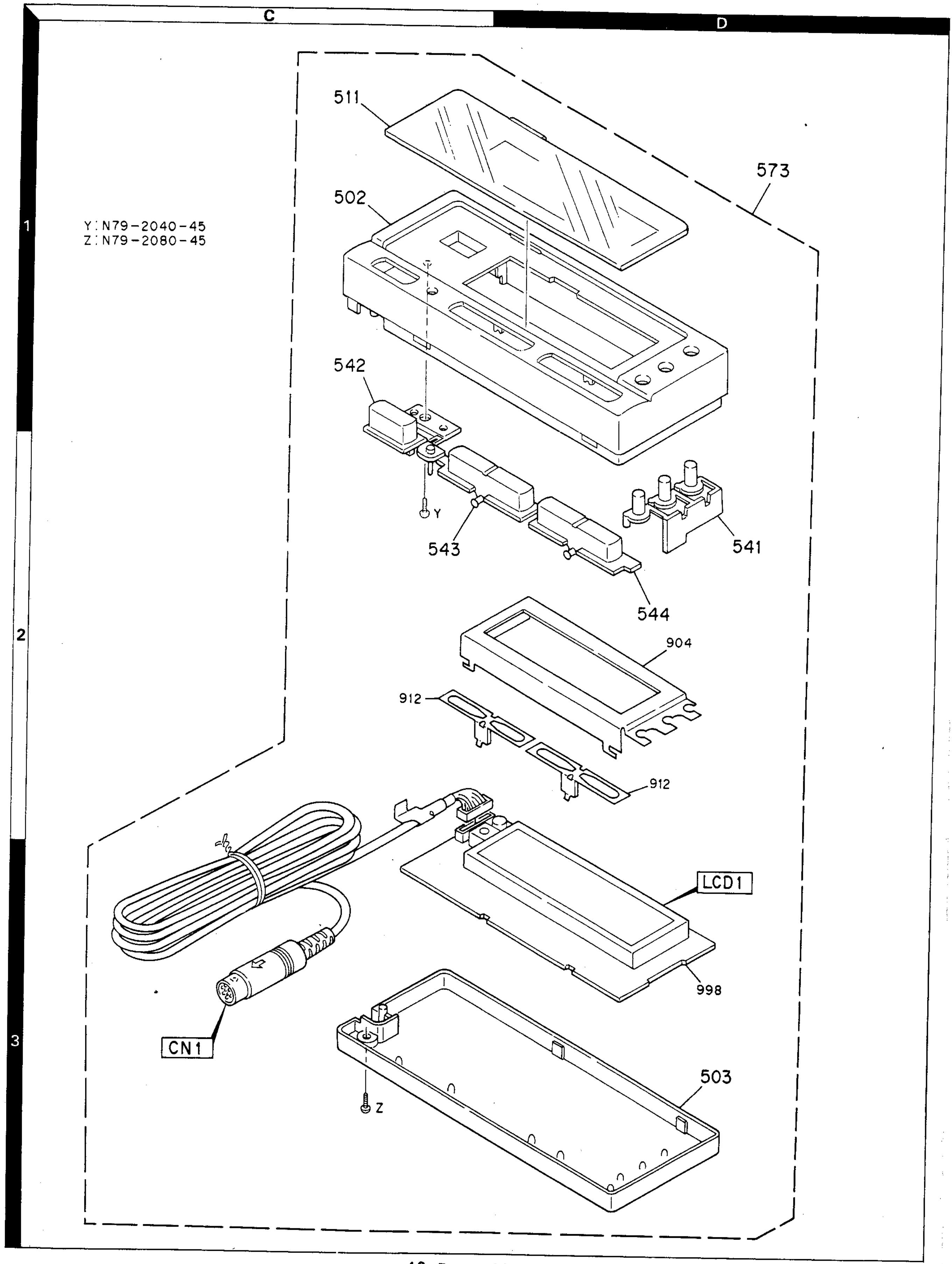
Ref. No.
参照番号

CR1
-
DC2
F1 ,2
249
-
-
-
271
273
475

RF

401
AT1
V
W
475
C1
C2
C3
C4
C5
C6
C7
C8
C9 ,10
C11 ,12
C13 -17
C18
C19
C20
C22
C23
C24
C30
C31
C32
C33
C103
C104
C105
C106
C107
C108
C109,110
C111

EXPLODED VIEW (DISPLAY UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

PARTS LIST

Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
KDC-C63FM				
CR1	1A	*	A70-0850-05	CARD REMOTE CONTROLER RC-100FM
-		*	B64-0658-00	INST.MANUAL (ENG.,FRE.,SPA.)
DC2	1A		E30-3709-08	DC CORD ASSY (for RF MODULATOR
F1 ,2	1A		F06-3026-05	FUSE (3A) (a part of DC2)
249	1A		H30-0501-08	MAGIC TAPE ASSY (20X60)(for RF
-			H10-4504-08	FOAMED FIXTURE (for RF MODULA.
-			H13-1639-08	PROTECTION BOARD (for RF MODU.
-		*	H25-0284-04	PROTECTION BAG (for RF MODUL.)
271	1A		N99-1634-08	SCREW SET (for RF MODULATOR)
273	2A	*	T95-0225-08	DISPLAY UNIT ASSY (for RF MODU
475	3B	*	W02-1510-05	RF MODULATOR UNIT ASSY
RF MODULATOR UNIT (W02-1510-05)				
401	1B	*	A01-2603-08	CASE
AT1	1B	*	E30-4310-08	ANTENNA CORD ASSY
V	1A		N89-3006-45	SCREW (x7)
W	3B		N89-3008-46	SCREW (for CN103 x2)
475	3B	*	W02-1510-05	RF MODULATOR UNIT ASSY
C1			C90-1401-05	ELECTRO 2200UF 16WV
C2			CK73FB1H223KTA	CHIP C 0.022UF K
C3			CE04DW1E101M	ELECTRO 100UF 25WV
C4			CK73FB1H223KTA	CHIP C 0.022UF K
C5			CE04DW1H4R7M	ELECTRO 4.7UF 50WV
C6			CE04DW1H100M	ELECTRO 10UF 50WV
C7			CE04DW1H010M	ELECTRO 1.0UF 50WV
C8			CK73FB1H102K	CHIP C 1000PF K
C9 ,10			CK73FB1H103K	CHIP C 0.010UF K
C11 ,12			CC73FCH1H220J	CHIP C 22PF J
C13 -17			CK73FB1H102K	CHIP C 1000PF K
C18			CE04DW1H100M	ELECTRO 10UF 50WV
C19			CE04DW1E101M	ELECTRO 100UF 25WV
C20			CE04DW1E221M	ELECTRO 220UF 25WV
C22			CE04DW1H100M	ELECTRO 10UF 50WV
C23			CE04DW1H010M	ELECTRO 1.0UF 50WV
C24			CE04DW1C471M	ELECTRO 470UF 16WV
C30			CE04DW1A102M	ELECTRO 1000UF 10WV
C31			CE04DW1A221M	ELECTRO 220UF 10WV
C32			CE04DW1H4R7M	ELECTRO 4.7UF 50WV
C33			CE04DW1E221M	ELECTRO 220UF 25WV
C103			CK73FB1H682K	CHIP C 6800PF K
C104			CE04DW1H100M	ELECTRO 10UF 50WV
C105			CE04DW1E470M	ELECTRO 47UF 25WV
C106			CE04DW1H4R7M	ELECTRO 4.7UF 50WV
C107			CC73FCH1H471J	CHIP C 470PF J
C108			CK73FB1H102K	CHIP C 1000PF K
C109,110			CK73FF1H104Z	CHIP C 0.10UF Z
C111			CE04DW1H010M	ELECTRO 1.0UF 50WV

Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
C112			CK73FB1H332K	CHIP C 3300PF K
C113			CC73FCH1H181J	CHIP C 180PF J
C114			CK73FB1H153K	CHIP C 0.015UF K
C203			CK73FB1H682K	CHIP C 6800PF K
C204			CE04DW1H100M	ELECTRO 10UF 50WV
C205			CE04DW1E470M	ELECTRO 47UF 25WV
C206			CE04DW1H4R7M	ELECTRO 4.7UF 50WV
C207			CC73FCH1H471J	CHIP C 470PF J
C208			CK73FB1H102K	CHIP C 1000PF K
C209,210			CK73FF1H104Z	CHIP C 0.10UF Z
C211			CE04DW1H010M	ELECTRO 1.0UF 50WV
C212			CK73FB1H332K	CHIP C 3300PF K
C213			CC73FCH1H181J	CHIP C 180PF J
C214			CK73FB1H153K	CHIP C 0.015UF K
C301			CE04DW1H100M	ELECTRO 10UF 50WV
C302			CK73FB1H103K	CHIP C 0.010UF K
C304			CC73FCH1H100D	CHIP C 10PF D
C305			CK73FB1H103K	CHIP C 0.010UF K
C306			CC73FCH1H221J	CHIP C 220PF J
C307			CE04DW1H100M	ELECTRO 10UF 50WV
C308			CK73FB1H473K	CHIP C 0.047UF K
C309			CC73FCH1H101J	CHIP C 100PF J
C310			CC73FCH1H330J	CHIP C 33PF J
C311			CE04DW1H010M	ELECTRO 1.0UF 50WV
C312			CK73FB1H103K	CHIP C 0.010UF K
C313			CE04DW1H100M	ELECTRO 10UF 50WV
C314			CE04DW1HR47M	ELECTRO 0.47UF 50WV
C315			CE04DW1E101M	ELECTRO 100UF 25WV
C316			CK73FB1H103K	CHIP C 0.010UF K
C317			CE04DW1H2R2M	ELECTRO 2.2UF 50WV
C318,319			CK73FB1H103K	CHIP C 0.010UF K
C320			CC73FCH1H181J	CHIP C 180PF J
C321			CE04DW1H010M	ELECTRO 1.0UF 50WV
C322			CC73FUJ1H221J	CHIP C 220PF J
C323			CC73FUJ1H680J	CHIP C 68PF J
C324			CC73FUJ1H150J	CHIP C 15PF J
C325			CK73FB1H103K	CHIP C 0.010UF K
C326			CE04DW1E470M	ELECTRO 47UF 25WV
C327			CC73FUJ1H150J	CHIP C 15PF J
C328			CC73FCH1H020C	CHIP C 2.0PF C
C329			CC73FCH1H150J	CHIP C 15PF J
C330			CK73FB1H103K	CHIP C 0.010UF K
C331			CC73FCH1H010C	CHIP C 1.0PF C
C332			CC73FCH1H050C	CHIP C 5.0PF C
C333,334			CC73FCH1H330J	CHIP C 33PF J
C335			CE04DW1H4R7M	ELECTRO 4.7UF 50WV
C336			CK73FB1H222K	CHIP C 2200PF K
VC301		*	C05-0513-08	TRIMMER 20P
CN101	2B		E56-0811-05	CONNECTOR
CN102	2B		E56-0805-15	CONNECTOR
CN103	2B		E08-0413-05	CONNECTOR
CN104,105			E40-3237-05	PIN ASSY
CN106		*	E39-0122-08	CONNECTOR
L1			L33-0934-08	CHOKING COIL

⚠ indicates safety critical components.

* New Parts
Parts without Parts No. are not supplied.
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Teile ohne Parts No. werden nicht geliefert.

PARTS LIST

(W02-1510-05)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
L301		*	L33-1043-08	SMALL FIXED INDUCTOR (0.22uH)
L302,303			L33-0976-08	SMALL FIXED INDUCTOR (2.2uH)
L304		*	L33-1043-08	SMALL FIXED INDUCTOR (0.22uH)
L305		*	L33-1042-08	SMALL FIXED INDUCTOR (0.12uH)
X301			L77-2018-08	CRYSTAL RESONATOR (38KHz)
X302			L77-1163-05	CRYSTAL RESONATOR (4.5MHz)
R1 ,2			RD14BB2C221J	RD 220 J 1/6W
R3			RD14BB2C222J	RD 2.2K J 1/6W
R4			RK73FB2A183J	CHIP R 18K J 1/10W
R5 ,6			RK73FB2A223J	CHIP R 22K J 1/10W
R7		*	R92-2148-08	CHIP R 22 J 2W
R8			RK73FB2A223J	CHIP R 22K J 1/10W
R9			RK73FB2A102J	CHIP R 1.0K J 1/10W
R11			RD14BB2C102J	RD 1.0K J 1/6W
R12			RD14BB2C103J	RD 10K J 1/6W
R13			RD14BB2C104J	RD 100K J 1/6W
R14			RD14BB2C222J	RD 2.2K J 1/6W
R15			RD14BB2C104J	RD 100K J 1/6W
R16			RD14BB2C222J	RD 2.2K J 1/6W
R17			RD14BB2C101J	RD 100 J 1/6W
R18			RD14BB2C104J	RD 100K J 1/6W
R19			RD14BB2C222J	RD 2.2K J 1/6W
R20			RD14BB2C101J	RD 100 J 1/6W
R21			RD14BB2C472J	RD 4.7K J 1/6W
R22 ,23			RD14BB2C102J	RD 1.0K J 1/6W
R24			RD14BB2C101J	RD 100 J 1/6W
R25 ,26			RD14BB2C102J	RD 1.0K J 1/6W
R27 ,28			RK73FB2A103J	CHIP R 10K J 1/10W
R29			RK73FB2A472J	CHIP R 4.7K J 1/10W
R30			RK73FB2A223J	CHIP R 22K J 1/10W
R31			RK73FB2A473J	CHIP R 47K J 1/10W
R32			RD14BB2C103J	RD 10K J 1/6W
R33			RK73FB2A473J	CHIP R 47K J 1/10W
R34			RK73FB2A182J	CHIP R 1.8K J 1/10W
R35			RK73FB2A820J	CHIP R 82 J 1/10W
R102			RK73FB2A562J	CHIP R 5.6K J 1/10W
R103			RK73FB2A332J	CHIP R 3.3K J 1/10W
R104			RK73FB2A103J	CHIP R 10K J 1/10W
R105-108			R92-2034-05	CHIP R 10K D 1/10W
R109			RK73FB2A102J	CHIP R 1.0K J 1/10W
R110			RK73FB2A272J	CHIP R 2.7K J 1/10W
R111			RK73FB2A182J	CHIP R 1.8K J 1/10W
R112			RK73FB2A753J	CHIP R 75K J 1/10W
R113			RK73FB2A242J	CHIP R 2.4K J 1/10W
R114-116			RK73FB2A682J	CHIP R 6.8K J 1/10W
R202			RK73FB2A562J	CHIP R 5.6K J 1/10W
R203			RK73FB2A332J	CHIP R 3.3K J 1/10W
R204			RK73FB2A103J	CHIP R 10K J 1/10W
R205-208			R92-2034-05	CHIP R 10K D 1/10W
R209			RK73FB2A102J	CHIP R 1.0K J 1/10W
R210			RK73FB2A272J	CHIP R 2.7K J 1/10W
R212			RK73FB2A753J	CHIP R 75K J 1/10W
R213			RK73FB2A242J	CHIP R 2.4K J 1/10W
R214-216			RK73FB2A682J	CHIP R 6.8K J 1/10W
R301			RK73FB2A154J	CHIP R 150K J 1/10W
R302			RK73FB2A123J	CHIP R 12K J 1/10W
R303			RK73FB2A103J	CHIP R 10K J 1/10W
R304			RK73FB2A472J	CHIP R 4.7K J 1/10W
R305			RK73FB2A223J	CHIP R 22K J 1/10W
R306			RK73FB2A103J	CHIP R 10K J 1/10W
R307			RK73FB2A472J	CHIP R 4.7K J 1/10W
R308			RK73FB2A393J	CHIP R 39K J 1/10W
R309			RK73FB2A153J	CHIP R 15K J 1/10W
R310			RK73FB2A123J	CHIP R 12K J 1/10W
R311,312			RK73FB2A472J	CHIP R 4.7K J 1/10W
R313			RK73FB2A334J	CHIP R 330K J 1/10W
R314			RK73FB2A333J	CHIP R 33K J 1/10W
R316			RK73FB2A122J	CHIP R 1.2K J 1/10W
R317			RK73FB2A242J	CHIP R 2.4K J 1/10W
R318			RK73FB2A272J	CHIP R 2.7K J 1/10W
R319			RK73FB2A102J	CHIP R 1.0K J 1/10W
R320			RK73FB2A822J	CHIP R 8.2K J 1/10W
R321			RK73FB2A223J	CHIP R 22K J 1/10W
R322			RK73FB2A472J	CHIP R 4.7K J 1/10W
R323			RK73FB2A471J	CHIP R 470 J 1/10W
R325,326			RK73FB2A223J	CHIP R 22K J 1/10W
R327			RK73FB2A473J	CHIP R 47K J 1/10W
R328			RK73FB2A271J	CHIP R 270 J 1/10W
R329			RK73FB2A470J	CHIP R 47 J 1/10W
R330			RK73FB2A331J	CHIP R 330 J 1/10W
R331			RK73FB2A473J	CHIP R 47K J 1/10W
R332			RK73FB2A101J	CHIP R 100 J 1/10W
R333			RK73FB2A470J	CHIP R 47 J 1/10W
R334			RK73FB2A472J	CHIP R 4.7K J 1/10W
R335			RK73FB2A8R2J	CHIP R 8.2 J 1/10W
R336			RK73FB2A223J	CHIP R 22K J 1/10W
R337,338			RK73FB2A472J	CHIP R 4.7K J 1/10W
R339,340			RK73FB2A681J	CHIP R 680 J 1/10W
R341			RD14BB2C103J	RD 10K J 1/6W
R343			RK73FB2A271J	CHIP R 270 J 1/10W
R344,345			RK73FB2A223J	CHIP R 22K J 1/10W
R346			RK73FB2A392J	CHIP R 3.9K J 1/10W
R347			RK73FB2A223J	CHIP R 22K J 1/10W
R348			RK73FB2A154J	CHIP R 150K J 1/10W
VR301		*	R32-0208-08	TRIMING POT. 33K(B)
VR303		*	R32-0207-08	TRIMING POT. 10K(B)
RL1			S76-0802-08	MAGNET RELAY
D1			DSK10C	DIODE
D5			DSK10C	DIODE
D6			1SS131	DIODE
D8			1SS131	DIODE
D9			DSK10C	DIODE
D12 ,13			1SS131	DIODE
D14 -16			DSK10C	DIODE
D301,302			DA204K	DIODE
VD301			1SV166	VARIABLE DIODE
ZD1 -7			MTZ6.2J(B)	ZENER DIODE

⚠ indicates safety critical components.

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

PARTS LIST

(W02-1510-05)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
IC1			UPC7805AHF	IC(VOLTAGE REGULATOR/ +5V)
IC2		*	LC72329-8979	IC (MICRO COMPUTER)
IC3 ,4			NJM78L05UA	IC(VOLTAGE REGULATOR/ +5V)
IC101			NJM2060M	IC(OP AMP X4)
IC102			NJM4565MD	IC(OP AMP X2)
IC301			BA1405F	IC (MPX)
IC302			NJM4565MD	IC(OP AMP X2)
Q1			DTC124EK	DIGITAL TRANSISTOR
Q2			2SB1237(Q,R)	TRANSISTOR
Q3			DTC114EK	DIGITAL TRANSISTOR
Q4 ,5			2SC2712(GR)	TRANSISTOR
Q6			DTA124EK	DIGITAL TRANSISTOR
Q8			2SC2712(GR)	TRANSISTOR
Q9			2SC4640T/U	TRANSISTOR
Q101			DTC323TK	DIGITAL TRANSISTOR
Q201			DTC323TK	DIGITAL TRANSISTOR
Q301,302			2SC2712(GR)	TRANSISTOR
Q303			2SA1162(GR)	TRANSISTOR
Q304,305			2SC2712(GR)	TRANSISTOR
Q306		*	2SK508L	FET
Q307			2SC2714(Y)	TRANSISTOR
Q308-311			2SC2712(GR)	TRANSISTOR

DISPLAY UNIT (T95-0225-08)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
502	1C	*	A02-1460-08	FRONT CASE
503	3D		A02-1446-08	REAR CASE
511	1C	*	B10-1663-08	FRONT GLASS ASSY
541	2D		K25-0713-08	KNOB (REP, RDM, PLAY/PAUSE)
542	1C		K29-5576-08	KNOB ASSY (PWR, RESET)
543	2C	*	K29-5585-08	KNOB (TRACK)
544	2D	*	K29-5586-08	KNOB (DISC)
Y	2C		N79-2040-45	SCREW (POWER-KEY x1)
Z	3C		N79-2080-45	SCREW (REAR CASE x1)
573	1D	*	T95-0225-08	DISPLAY UNIT ASSY (for RF MODU
LCD1	3D	*	B38-0643-08	LCD
LED1-18			B30-1459-08	LED
C1			C92-0047-05	CHIP-ELE 47UF 6.3WV
C2			CK73GB1H681K	CHIP C 680PF K
C3			C92-0037-05	CHIP-ELE 10UF 16WV
C4 ,5			CK73FB1H223KTA	CHIP C 0.022UF K
CN1	3C	*	E30-4309-08	DIN CORD ASSY (8P)
R1 -3			RK73GB1J222J	CHIP R 2.2K J 1/16W
R4			RK73GB1J101J	CHIP R 100 J 1/16W
R5			RK73GB1J222J	CHIP R 2.2K J 1/16W
R6			RK73GB1J513J	CHIP R 51K J 1/16W
R7 -15			RK73GB1J470J	CHIP R 47 J 1/16W
R16 ,17			RK73GB1J102J	CHIP R 1.0K J 1/16W
SW1 -9			S70-0828-08	TACT SWITCH
D1 -5			DA204K	DIODE
IC1		*	LC75852W	IC (LCD DRIVER)
IC2			PNA4602M	IC (REMOTE SENSOR)
Q1			DTC144EK	DIGITAL TRANSISTOR
Q2			DTB123YK	DIGITAL TRANSISTOR
Q3			DTA144EK	DIGITAL TRANSISTOR
Q4			DTC144EK	DIGITAL TRANSISTOR
Q5			DTA144EK	DIGITAL TRANSISTOR

⚠ indicates safety critical components.

SPECIFICATIONS

Specifications subject to change without notice.

Disc Section

Laser Diode	GaAlAs (λ=780 nm)
Digital Filter (D/A)	8 Times Over Sampling
D/A Converter	1 bit
Spindle speed	500 ~ 200 rpm (CLV)
Wow & Flutter	Below Measurable Limit
Modulating Frequency	87.7, 87.9, 88.1, 88.3, 88.5, 88.7, 88.9, 89.1, 89.3, 89.5, 89.7, 89.9 MHz

General

Operating Voltage	14.4 V (11 ~ 16 V)
Current consumption	1.4 A
Operating Temperature	–10 ~ 50 °C
Size (W x H x D)	
(CD changer)	281 x 76 x 171 mm (11-1/16 x 3 x 6-3/4 in.)
(Controller)	54 x 85 x 5 mm (2-1/8 x 3-3/8x 3/16 in.)
(Display unit)	105 x 40 x 18 mm (4-1/8 x 1-9/16 x 11/16 in.)
(RF modulator unit)	150 x 30 x 120 mm (5-7/8 x 1-3/16 x 4-3/4 in.)
Weight	
(CD changer)	3.0 kg (6.6 lbs)
(Controller)	0.028 kg (0.06 lbs)
(Display unit)	0.125 kg (0.28 lbs)
(RF modulator unit)	0.645 kg (1.42 lbs)

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KENWOOD SERVICE CORPORATION
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CD AUTO CHANGER

KDC-C63FM

SERVICE MANUAL

KENWOOD

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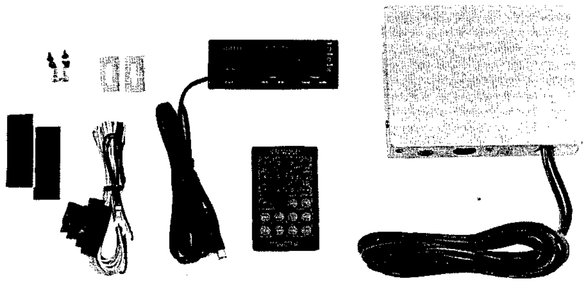
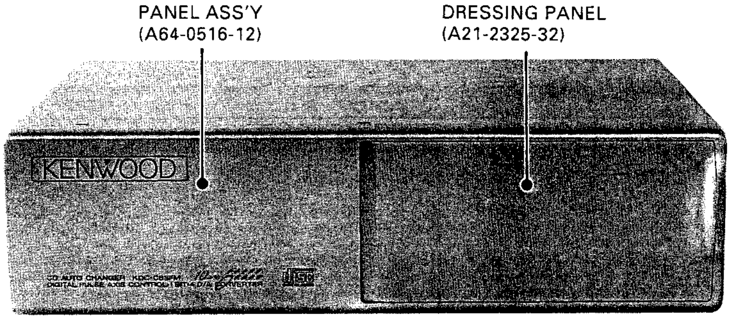
B51-6857-00(MC) 844

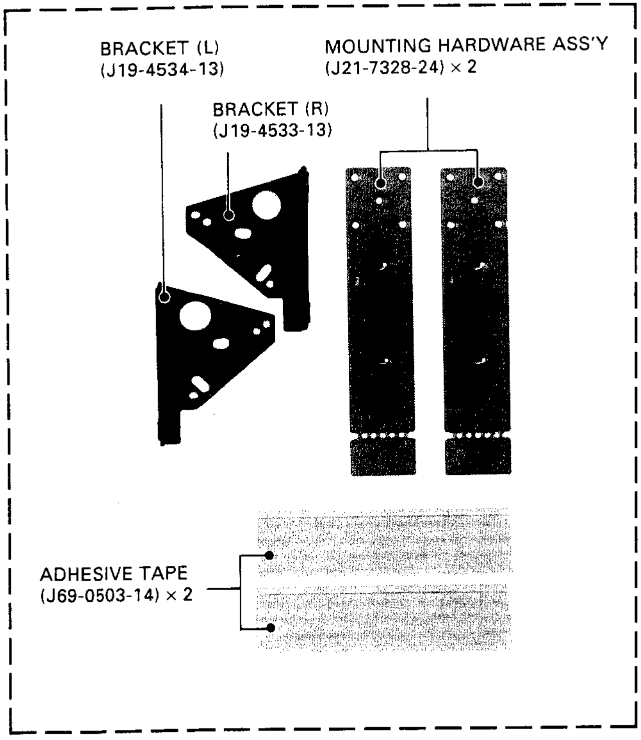
Please see service manual KDC-C803 (B51-6858-00), if you need to refer the following Description.

- **DISASSEMBLY FOR REPAIR.**
- **MECHANISM ASSEMBLY PROCEDURE.**
- **SERVO CIRCUIT DESCRIPTION EXCEPT MECHA. MICROCOMPUTER (X32-).**
- **MECHANISM OPERATION DESCRIPTION.**




PANEL ASS'Y
(A64-0516-12)
DRESSING PANEL
(A21-2325-32)
KENWOOD

To Serial No. 50600000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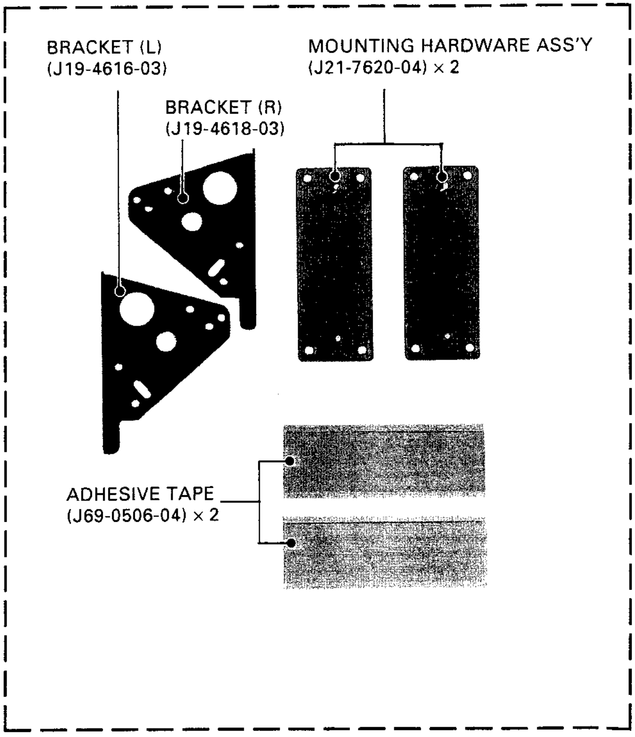
(J19-4534-13)
MOUNTING HARDWARE ASS'Y
(J21-7328-24) × 2
BRACKET (R)
(J19-4533-13)
ADHESIVE TAPE
(J69-0503-14) × 2

From Serial No. 50600001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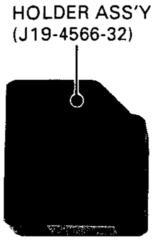
(J19-4616-03)
MOUNTING HARDWARE ASS'Y
(J21-7620-04) × 2
BRACKET (R)
(J19-4618-03)
ADHESIVE TAPE
(J69-0506-04) × 2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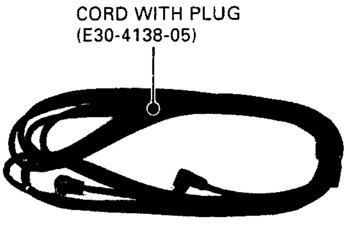
(J19-4566-32)


CORD WITH PLUG
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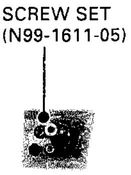
SCREW SET
(N99-1611-05)

KDC-C63FM

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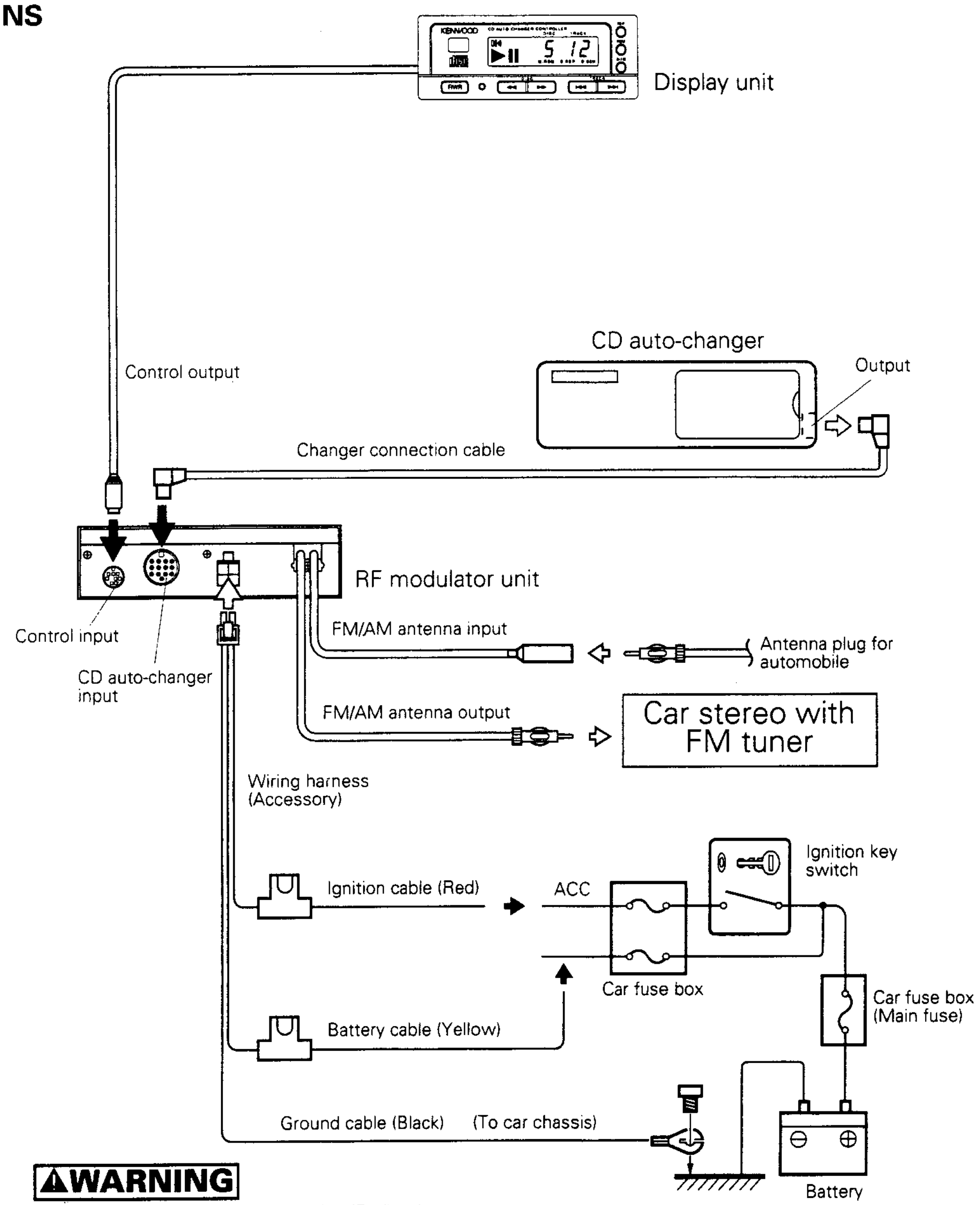
CONNECTIONS


Display unit
CD auto-changer
Control output
Output
Changer connection cable
RF modulator unit
Control input
CD auto-changer input
FM/AM antenna input
Antenna plug for automobile
FM/AM antenna output
Car stereo with FM tuner
Wiring harness (Accessory)
Ignition cable (Red)
ACC
Ignition key switch
Car fuse box
Car fuse box (Main fuse)
Battery cable (Yellow)
Ground cable (Black)
(To car chassis)
Battery

⚠WARNING

To prevent fire when the ignition cable (Red) or battery cable (Yellow) is short-circuited by coming into contact with the vehicle chassis (ground), only connect the power supply after making the fuse box connections.

TROUBLESHOOTING GUIDE

Often, what appears to be a malfunction is due to user error. Before calling for service please consult the following table.

Symptom	Cause	Remedy
The power is not turned on.	The wiring harness fuse blows.	Check cables for shorts, then replace the fuse with one of with the same rating (shown on the case).
No sound or sound is low.	The volume level is minimum.	Raise the volume level.
	The fader or balance is set to one side.	Adjust the fader and balance.
	The input/output cable or wiring harness is connected incorrectly.	Connect the input/output cable or wiring harness correctly. See "Connections" (Page 23).
The unit does not work properly when a button is pressed.	The microcomputer malfunctions.	Press the Reset button of the display unit.
Sound quality is poor. (Sound distortion)	The volume level is too high.	Use the appropriate volume level.
CD play does not start.	CD auto-changer input is not connected to the unit.	Connect the CD auto-changer input to the unit.
	Power button is not turned ON.	Turn the power button ON.
The specified disc is not played; a different disc is played instead.	The specified disc is very dirty.	Check and, if possible, clean the disc. See "Cleaning your discs" (Page 6).
	The disc is loaded upside down.	Eject the disc magazine and insert the disc correctly.
	Two discs are inserted in a slot.	Eject the disc magazine and insert the discs correctly.
	The number of the slot into which the disc is inserted is different from the number of the specified disc.	Eject the disc magazine and check the number of the specified disc.
	The disc is severely damaged.	Use another disc.
Sound skips due to vibration.	Something is touching the CD auto-changer.	Keep it away from the CD auto-changer.
	The disc is dirty or damaged.	If sound skips at the same part, the disc is faulty. Check and, if possible, clean the disc. See "Cleaning your discs" (Page 6).
	The unit is mounted at a slant.	Mount the unit so that is level.
	Changer unit is mounted in an unstable place.	Mount the unit in a stable place.
	The angle adjustment switches are set improperly.	Set the angle adjustment switches to the correct positions.
Sound quality is poor.	The recording of the disc is poor.	Try playing another disc. If the sound is good, the fault was with the original disc.
	The disc is dirty or damaged.	Check and, if possible, clean the disc. See "Cleaning your discs (Page 6)".
No sound is heard even though the information concerning the CD auto-changer is displayed.	Volume is set to minimum level.	Raise the volume level.
	The microcomputer does not function correctly.	Press the Reset button of the display unit.
	The system is not connected properly.	Connect the system properly. See "Connections" (Page 23).
The specified track is not played.	The player is set to RANDOM PLAY/MAGAZINE RANDOM PLAY.	Turn off RANDOM PLAY/MAGAZINE RANDOM PLAY.

In some cases, you may see one of the following error messages on your unit's display.

E 01: No disc magazine in changer. Disc magazine is not inserted properly.
⇨Insert the disc magazine properly.

E 02: No disc in disc magazine.
⇨Load a disc in the disc magazine.

E 04: Disc is too dirty. The disc is upside down. The disc is damaged.
⇨Clean the disc and insert it correctly.

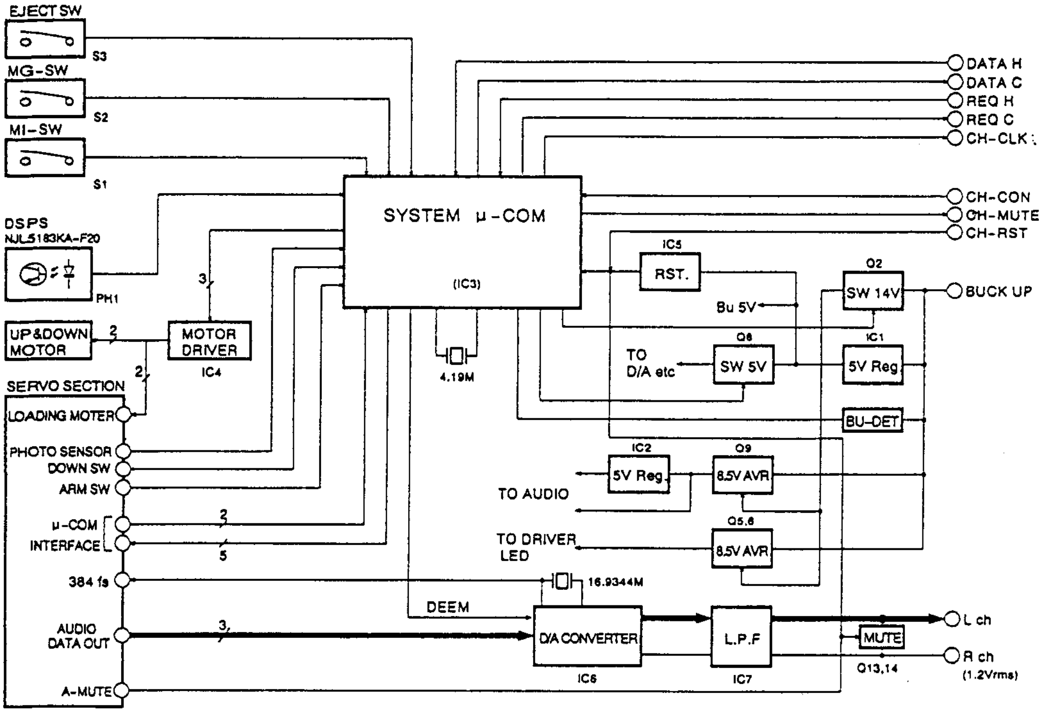
E 99: The unit malfunctions due to a defective CD mechanism.
Press the Reset button. If the "E 99" message does not disappear; contact your Kenwood dealer.

E 0d: When the temperature exceeds 60°C, a protection circuit will stop all operations. This message will then be displayed.
⇨Let the place where the changer is located cool down. As soon as it has cooled, the changer starts playing.

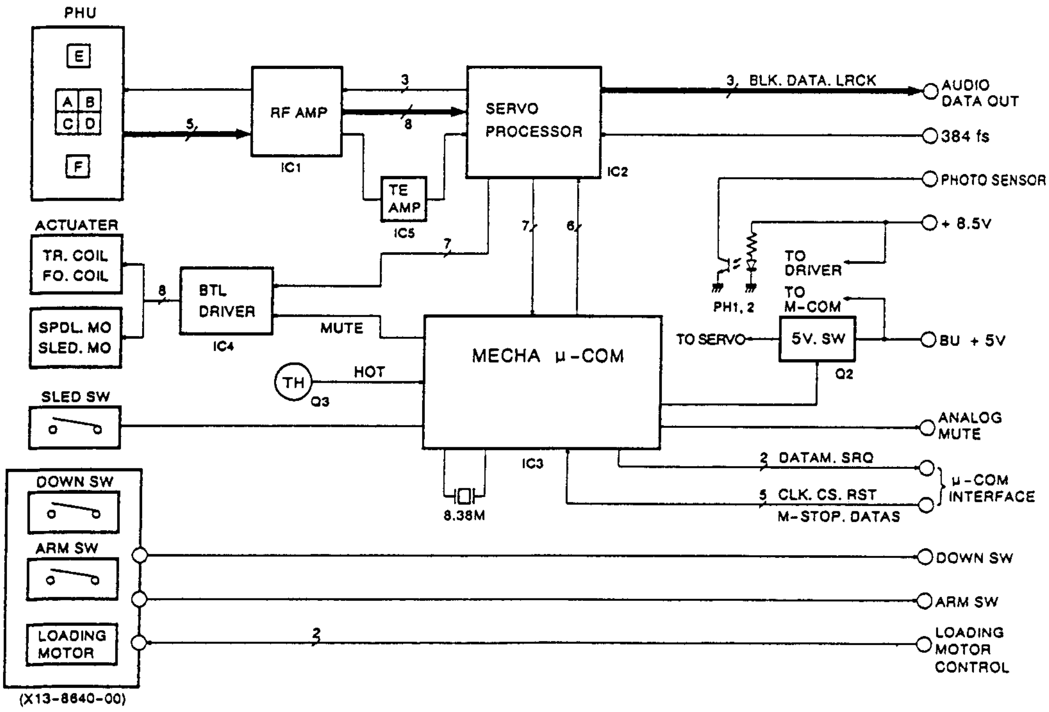
KDC-C63FM

BLOCK DIAGRAM

SYSTEM SECTION (X29-)


EJECT SW
S3
MG-SW
S2
MI-SW
S1
DSPS
NJL5183KA-F20
PH1
UP&DOWN MOTOR
2
3
MOTOR DRIVER
IC4
2
SERVO SECTION
LOADING MOTER
PHOTO SENSOR
DOWN SW
ARM SW
μ-COM INTERFACE
2
5
384 fs
AUDIO DATA OUT
3
A-MUTE
SYSTEM μ-COM
(IC3)
4.19M
DATA H
DATA C
REQ H
REQ C
CH-CLK
CH-CON
CH-MUTE
CH-RST
IC5
RST.
Bu 5V
Q2
SW 14V
BUCK UP
TO D/A etc
Q8
SW 5V
IC1
5V Reg
BU-DET
IC2
5V Reg
Q9
8.5V AVR
TO AUDIO
TO DRIVER LED
Q5,6
8.5V AVR
16.9344M
DEEM
D/A CONVERTER
IC6
L.P.F
IC7
MUTE
Q13,14
L ch
R ch
(1.2Vrms)

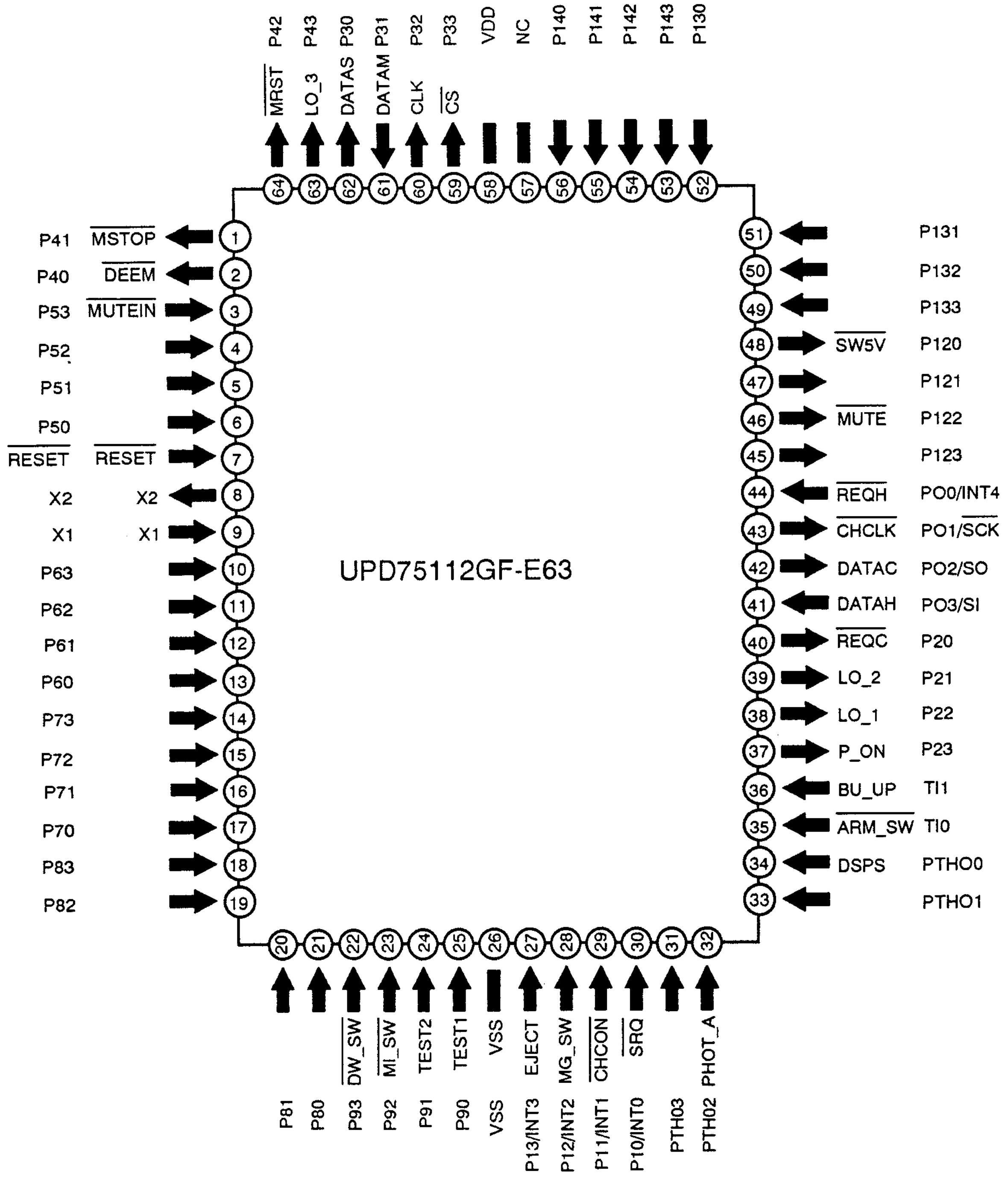
SERVO SECTION (X32-)


PHU
E
A B
C D
F
5
RF AMP
IC1
3
8
TE AMP
IC5
SERVO PROCESSOR
IC2
3, BLK. DATA. LRCK
AUDIO DATA OUT
384 fs
PHOTO SENSOR
+ 8.5V
TO DRIVER
TO M-COM
PH1, 2
ACTUATER
TR. COIL
FO. COIL
SPDL. MO
SLED. MO
8
BTL DRIVER
IC4
7
7
6
MUTE
TH
Q3
HOT
MECHA μ-COM
IC3
TO SERVO
5V. SW
Q2
BU + 5V
ANALOG MUTE
8.38M
2 DATAM. SRQ
5 CLK. CS. RST
M-STOP. DATAS
μ-COM INTERFACE
SLED SW
DOWN SW
ARM SW
LOADING MOTOR
2
DOWN SW
ARM SW
LOADING MOTOR CONTROL
(X13-8640-00)

SYSTEM MICROCOMPUTER DESCRIPTION

(X29-) IC3: UPD75112GF-E63-3BE

- Pin layout


UPD75112GF-E63
P42 MRST 64
P43 LO_3 63
P30 DATAS 62
P31 DATAM 61
P32 CLK 60
P33 CS 59
VDD 58
NC 57
P140 56
P141 55
P142 54
P143 53
P130 52
P41 MSTOP 1
P40 DEEM 2
P53 MUTEIN 3
P52 4
P51 5
P50 6
RESET RESET 7
X2 X2 8
X1 X1 9
P63 10
P62 11
P61 12
P60 13
P73 14
P72 15
P71 16
P70 17
P83 18
P82 19
51 P131
50 P132
49 P133
48 SW5V P120
47 P121
46 MUTE P122
45 P123
44 REQH PO0/INT4
43 CHCLK PO1/SCK
42 DATAC PO2/SO
41 DATAH PO3/SI
40 REQC P20
39 LO_2 P21
38 LO_1 P22
37 P_ON P23
36 BU_UP TI1
35 ARM_SW TI0
34 DSPS PTHO0
33 PTHO1
20 P81
21 P80
22 DW_SW P93
23 MI_SW P92
24 TEST2 P91
25 TEST1 P90
26 VSS VSS
27 EJECT P13/INT3
28 MG_SW P12/INT2
29 CHCON P11/INT1
30 SRQ P10/INT0
31 PTH03
32 PHOT_A PTH02

SYSTEM MICROCOMPUTER DESCRIPTION

(X29-) IC3: UPD75112GF-E63

● Terminal Function Description

Pin No.	Pin Name	Function	I/O	Description	Power off
1	P41	$\overline{\text{MSTOP}}$	O	Mechanism μ-COM stop control output. ("L" : Stop)	L
2	P40	$\overline{\text{DEEM}}$	O	D/A converter de-emphasis control terminal. ("L" : ON)	L
3	P53	$\overline{\text{MUTEIN}}$	I	MUTE input from mechanism μ-COM. (Not used, permanently "H")	
4	P52	Not used	I	Connected to GND.	
5	P51	Not used	I	Connected to GND.	
6	P50	Not used	I	Connected to GND.	
7	$\overline{\text{RESET}}$		I	System reset terminal.	
8	X2		O	Clock oscillator connention terminal 4.19MHZ.	
9	X1		I	Clock oscillator connention terminal 4.19MHZ.	
10	P63	Not used	I	Connected to GND.	
11	P62	Not used	I	Connected to GND.	
12	P61	Not used	I	Connected to GND.	
13	P60	Not used	I	Connected to GND.	
14	P73	Not used	I	Connected to GND.	
15	P72	Not used	I	Connected to GND.	
16	P71	Not used	I	Connected to GND.	
17	P70	Not used	I	Connected to GND.	
18	P83	Not used	I	Connected to GND.	
19	P82	Not used	I	Connected to GND.	
20	P81	Not used	I	Connected to GND.	
21	P80	Not used	I	Connected to GND.	
22	P93	$\overline{\text{DW\_SW}}$	I	Disc douwn SW. ("L" : Down)	
23	P92	$\overline{\text{MI\_SW}}$	I	Mechanism deck initialize SW. ("L" : Initial position)	
24	P91	TEST2	I	TE amplitude and EF balance measurement select terminal. ("L" : Normal) ("H" : Measuring mode)	
25	P90	TEST1	I	Mechanism control protection select terminal. ("L" : Not protected) ("H" : Protected)	
26	VSS			Connected to GND.	
27	P13/INT3	EJECT	I	Eject SW detection terminal. ("H" : ON)	
28	P12/INT2	MG_SW	I	Magazine SW detection terminal. ("H" : Magazine present) ("L" : Not present)	
29	P11/INT1	$\overline{\text{CHCON}}$	I	Stand-by control input. ("H" : ST-BY mode) ("L" : Changer operating)	
30	P10/INT0	$\overline{\text{SRQ}}$	I	Communication service request from mechanism μ-COM. ("L" : Requested)	
31	PTHO3	Not used	I	Connected to GND.	
32	PTHO2	PHOTO_A	I	Disc detection photosensor input terminal. ("H" : Disc present)	
33	PTHO1	Not used	I	Connected to GND.	
34	PTHO0	DSPS	I	CD mechanism high/low position detection photosensor input terminal. ("H" : Normal stop position)	

SYSTEM MICROCOMPUTER DESCRIPTION

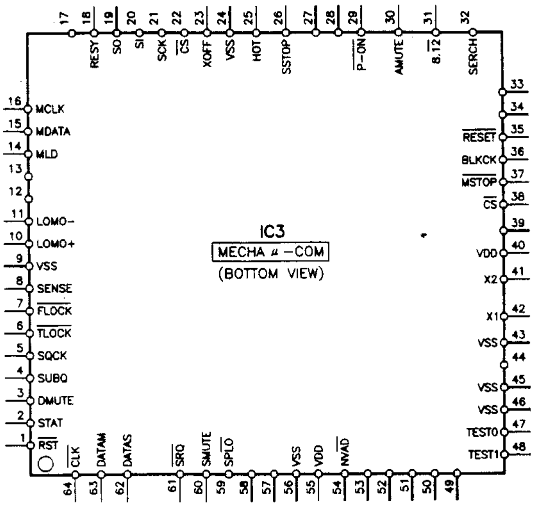
(X29-) IC3: UPD75112GF-E63

Pin No.	Pin Name	Function	I/O	Description		Power off
35	TI0	ARM_SW	I	Disc pull-out SW.	("L" : ON)	
36	TI1	BU_UP	I	Momentary power failure detection input terminal.	("H" : Power failure)	
37	P23	P_ON	O	Power ON (+14 V line) control output.	("H" : ON)	L
38	P22	LO_1	O	CD mechanism UP/DOWN control output.	("H" : During control)	L
39	P21	LO_2	O	Disc loading/ejection control output.	("H" : During control)	L
40	P20	REQC	O	Transmission permission terminal to H.U.	("L" : Permitted)	H
41	P03/SI	DATAH	I	Serial data input from H.U.		
42	P02/SO	DATAC	O	Serial data output to H.U.		H/L
43	P01/SCK	CHCLK	O	Communication sync clock output to H.U.		
44	P00/INT4	REQH	I	Communication handshake request from H.U.	("L" : Requested)	
45	P123	Nou used	O	Open.	(Permanently "L")	L
46	P122	MUTE	O	MUTE control output to H.U.	("L" : MUTE ON)	H
47	P121	Not used	O	Open.	(Permanently "L")	L
48	P120	SW5V	O	Power ON (+5V line) control output.	("L" : ON)	H
49	P133	Not used	I	Connected to GND.		
50	P132	Not used	I	Connected to GND.		
51	P131	Not used	I	Connected to GND.		
52	P130	Not used	I	Connected to GND.		
53	P143	Not used	I	Connected to GND.		
54	P142	Not used	I	Connected to GND.		
55	P141	Not used	I	Connected to GND.		
56	P140	Not used	I	Connected to GND.		
57	NC		I	Connected to VDD.		
58	VDD		I	Positive power supply terminal.		
59	P33	CS	O	Handshake request to CD mechanism μ-COM.	("L" : Requested)	H
60	P32	CLK	O	Communication sync clock output to CD mechanism μ-COM.		L
61	P31	DATAM	I	Serial data input from CD mechanism μ-COM.		
62	P30	DATAS	O	Serial data output to CD mechanism μ-COM.		H/L
63	P43	LO_3	O	CD mechanism UP/DOWN and disc loading/ejection control output.	("H" : Loading or CD mechanism UP) ("L" : Ejection or CD mechanism DOWN)	L
64	P42	MRST	O	CD mechanism μ-COM reset output.	("L" : Reset)	H

KDC-C63FM

SERVO CIRCUIT DESCRIPTION

(X32-) IC3: UPD78002BGC627 (MECHA. MICROCOMPUTER)


IC3
MECHA µ −COM
(BOTTOM VIEW)
1 $\overline{\text{RST}}$
2 STAT
3 DMUTE
4 SUBQ
5 SQCK
6 $\overline{\text{TLOCK}}$
7 $\overline{\text{FLOCK}}$
8 SENSE
9 VSS
10 LOMO+
11 LOMO−
12
13
14 MLD
15 MDATA
16 MCLK
17
18 RESY
19 SO
20 SI
21 SCK
22 $\overline{\text{CS}}$
23 XOFF
24 VSS
25 HOT
26 SSTOP
27
28
29 $\overline{\text{P-ON}}$
30 AMUTE
31 8.$\overline{12}$
32 SERCH
33
34
35 $\overline{\text{RESET}}$
36 BLKCK
37 $\overline{\text{MSTOP}}$
38 $\overline{\text{CS}}$
39
40 VDD
41 X2
42 X1
43 VSS
44
45 VSS
46 VSS
47 TEST0
48 TEST1
49
50
51
52
53
54 $\overline{\text{NVAD}}$
55 VDD
56 VSS
57
58
59 $\overline{\text{SPLO}}$
60 SMUTE
61 $\overline{\text{SRQ}}$
62 DATAS
63 DATAM
64 $\overline{\text{CLK}}$

Pin No.	Function	I/O	Description
1	$\overline{\text{RST}}$	O	Servo circuit IC reset terminal. Used when terminal power ON.
2	STAT	I	Status signal input from servo IC (IC2). To be monitored before controlling it. (CRC, CUE, CLVS, TTSTOP, FCLV, SQOK)
3	DMUTE	O	Digital muting output from servo IC (IC2). ["H": ON]
4	SUBO	I	Subcode Q code input from servo IC (IC2).
5	$\overline{\text{SOCK}}$	O	External clock output for subcode Q register of servo IC (IC2).
6	$\overline{\text{TLOCK}}$	I	Tracking servo lock signal from servo IC (IC2). ["L": Locked]
7	FLOCK	I	Focusing servo lock signal from servo IC (IC2). ["L": Locked]
8	SENSE	I	Sense signal from servo IC (IC2). To be monitored before controlling it. (OFT, FESL, NACEND, NAJEND, POSAD, SFG)
9	Vss	–	
10	(Not used)	–	
11	(Not used)	–	
12	(Not used)	–	
13	(Not used)	–	
14	MLD	O	Microcomputer command load signal for servo IC (IC2). ["L": Load] (Mechanism µ-COM: IC3) → (Servo IC: IC2)
15	MDATA	O	Microcomputer command data signal for servo IC (IC2). (Mechanism µ-COM: IC3) → (Servo IC: IC2)
16	MCLK	O	Microcomputer command clock signal for servo IC (IC2). Latch takes place at the "positive going" of this signal. (Mechanism µ-COM: IC3) → (Servo IC: IC2)
17	(Not used)	–	
18	RESY	I	Re-synchronization signal of frame sync of servo IC (IC2). ["H": Sync, "L": Async]
19	So (Anti-shock)	I	Serial data signal from anti-shock memory IC. (Anti-shock memory) → (Mechanism µ-COM: IC3)
20	(Not used)	–	
21	(Not used)	–	
22	(Not used)	–	
23	XOFF	O	
24	Vss	–	

SERVO CIRCUIT DESCRIPTION

(X32-) IC3: UPD78002BGC627 (MECHA. MICROCOMPUTER)

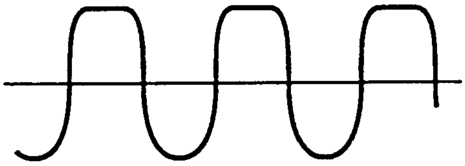
Pin No.	Function	I/O	Description
25	HOT	I	Detection of temperature rise around servo circuity. ["H": Hot error]
26	$\overline{\mathrm{SSTOP}}$	I	Detection of sled position. ["L": Innermost position]
27	(Not used)	–	
28	(Not used)	–	
29	$\overline{\mathrm{PON}}$	O	Power control of servo circuit IC. ["H": OFF, "L": ON]
30	$\overline{\mathrm{AMUTE}}$	O	Analog muting signal for servo IC (IC2). ["L": ON]
31	8/$\overline{\mathrm{12\ cm}}$	O	Servo IC gain switching control. ["H: 8 cm, "L": 12 cm]
32	(Not used)	–	
33	(Not used)	–	
34	(Not used)	–	
35	$\overline{\mathrm{RESET}}$	I	Mechanism μ-COM (IC3) reset signal. ["L": Reset]
36	BLKCK	I	Subcode block clock signal from servo IC (IC2). (75 Hz during normal playback)
37	$\overline{\mathrm{MSTOP}}$	I	Mechanism μ-COM (IC3) stand-by control. ["L": standby (STOP)]
38	$\overline{\mathrm{CS}}$	I	Communications request from system μ-COM (X29-). (System μ-COM: X29-) → (Mechanism μ-COM: IC3)
39	Vss	–	
40	VDD	–	
41	Xin	I	Main clock of μ-COM (IC3).
42	Xout	O	Main clock of μ-COM (IC3).
43	(Not used)	–	
44	(Not used)	–	
45	(Not used)	–	
46	(Not used)	–	
47	TEST1	I	Test mode terminal.
48	TEST0	I	Test mode terminal.
49	(Not used)	–	
50	(Not used)	–	
51	(Not used)	–	
52	(Not used)	–	
53	(Not used)	–	
54	NAVI/$\overline{\mathrm{AUD}}$	I	Mechanism μ-COM (IC3) destination terminal. ["H": Navigation. "L": Audio]
55	VDD	–	
56	Vss	–	
57	(Not used)	–	
58	(Not used)	–	
59	SP/$\overline{\mathrm{LO}}$	O	
60	$\overline{\mathrm{DRV}}$ MUTE	O	Drive muting. Mutes the servo driver (IC4) while the master clock is stopped in other operations than loading. [Muting ON → "L"]
61	$\overline{\mathrm{SRQ}}$	O	Communications request to mechanism μ-COM (IC3). (Mechanism μ-COM: IC3) → (System μ-COM: X29-)
62	DATAS	I	Data input terminal from system μ-COM (X29-). (System μ-COM: X29-) → (Mechanism μ-COM: IC3)
63	DATAM	O	Mechanism μ-COM (IC3) data signal. (Mechanism μ-COM: IC3) → (System μ-COM: X29-)
64	$\overline{\mathrm{CLK}}$	I	Clock signal from system μ-COM (X29-). (System μ-COM: X29-) → (Mechanism μ-COM: IC3)

ADJUSTMENT (RF MODULATOR)

RF MODULATOR

1. DC balance adjustment

Connect an oscilloscope to TP5. (AC)
Rotate VR302 to adjust the upper and lower sides of the displayed waveform are symmetry.

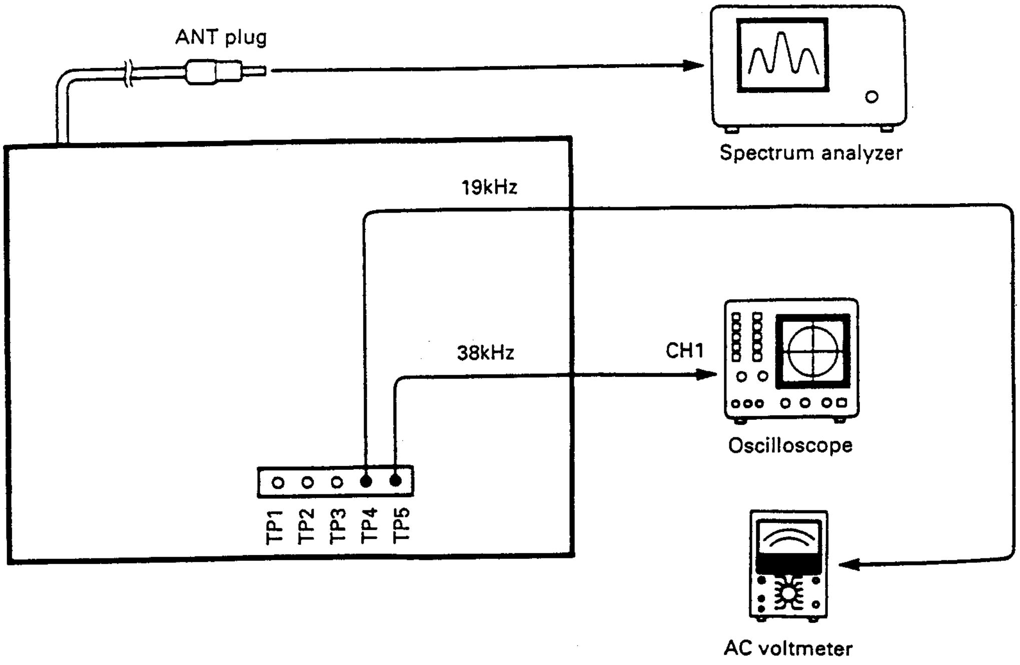


2. Pilot level adjustment

Connect an AC voltmeter to TP4.
Adjust VR303 so that the AC voltmeter reads 44mV (±0.5dBm).

3. Transmitting frequency adjustment

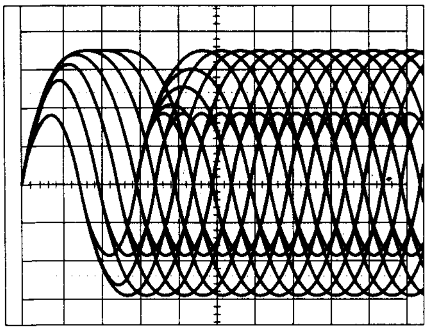
Connect the spectrum analyzer to ANT plug.
Lo : Adjust TC301 so that the spectrum analyzer reads 88.3±0.005MHz.
Hi : Adjust TC302 so that the spectrum analyzer reads 88.7±0.005MHz.


ANT plug
Spectrum analyzer
19kHz
38kHz
CH1
Oscilloscope
TP1
TP2
TP3
TP4
TP5
AC voltmeter

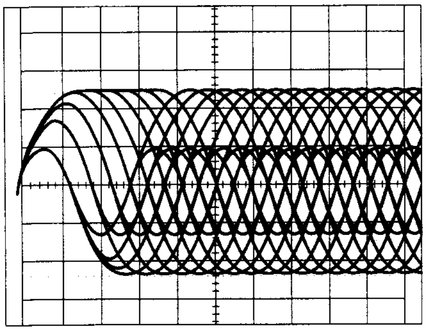
ADJUSTMENT (MECHANISM)

Wave form: Photo No. → Refer to SCHEMATIC DIAGRAM (X32-)

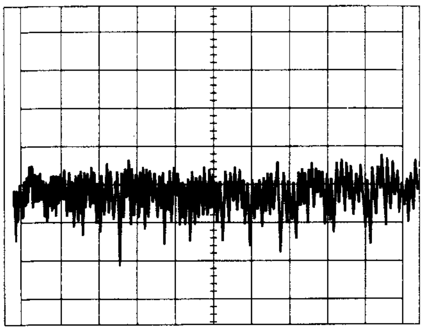
① ARF
200mV/cm 0.5μs



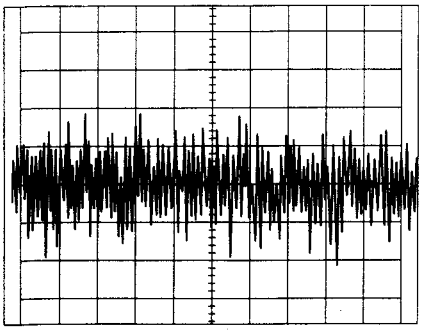
② RF
200mV/cm 0.5μs



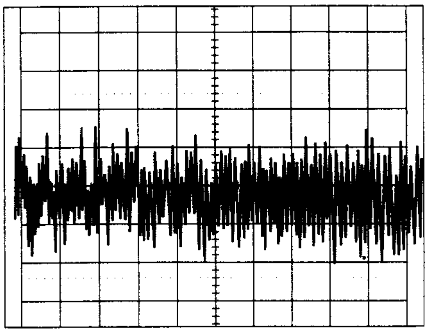
③ FE
50mV/cm 1ms



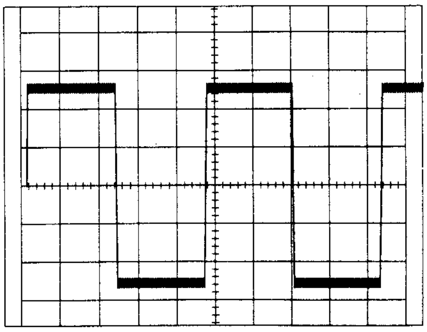
④ TE1
100mV/cm 1ms



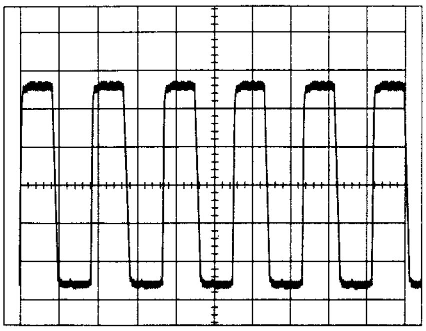
⑤ TE2
100mV/cm 1ms



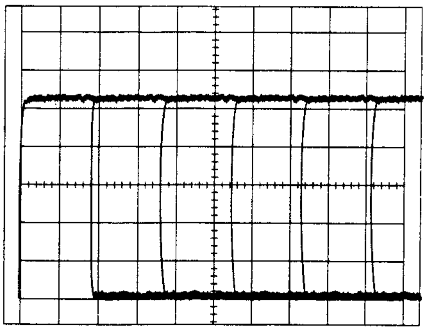
⑥ LRC IN(IC3 Pin No.1)
1V/cm 5μs



⑦ BCK IN(IC3 Pin No.2)
1V/cm 0.2μs

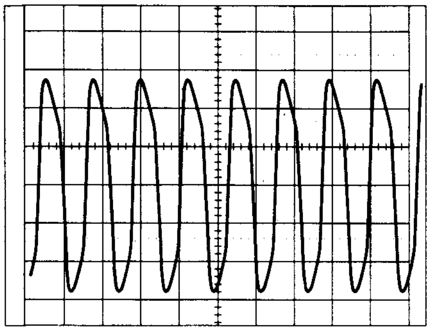


⑧ DATA IN(IC3 Pin No.3)
1V/cm 0.2μs

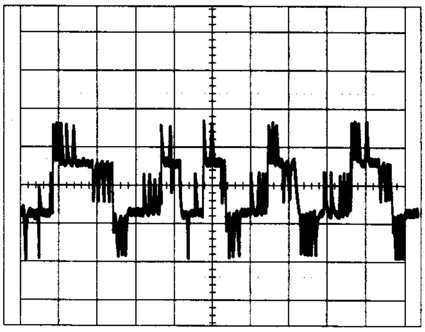


ADJUSTMENT (MECHANISM)

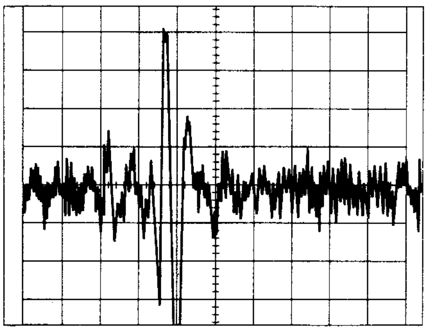
⑨ XTO (IC3 Pin No.22)
1V/cm 50μs



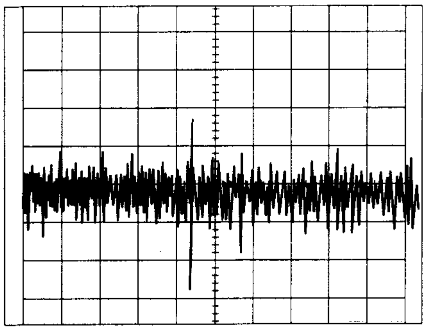
⑬ SPDL M. (SPDL M. + and -)
200mV/cm 10ms



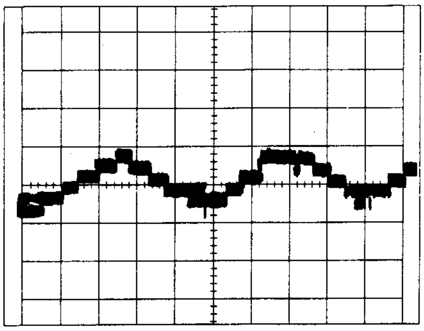
⑩ FO (IC7 Pin No.1 or 2)
200mV/cm 1ms



⑪ TO (IC7 Pin No.26 or 27)
500mV/cm 1ms

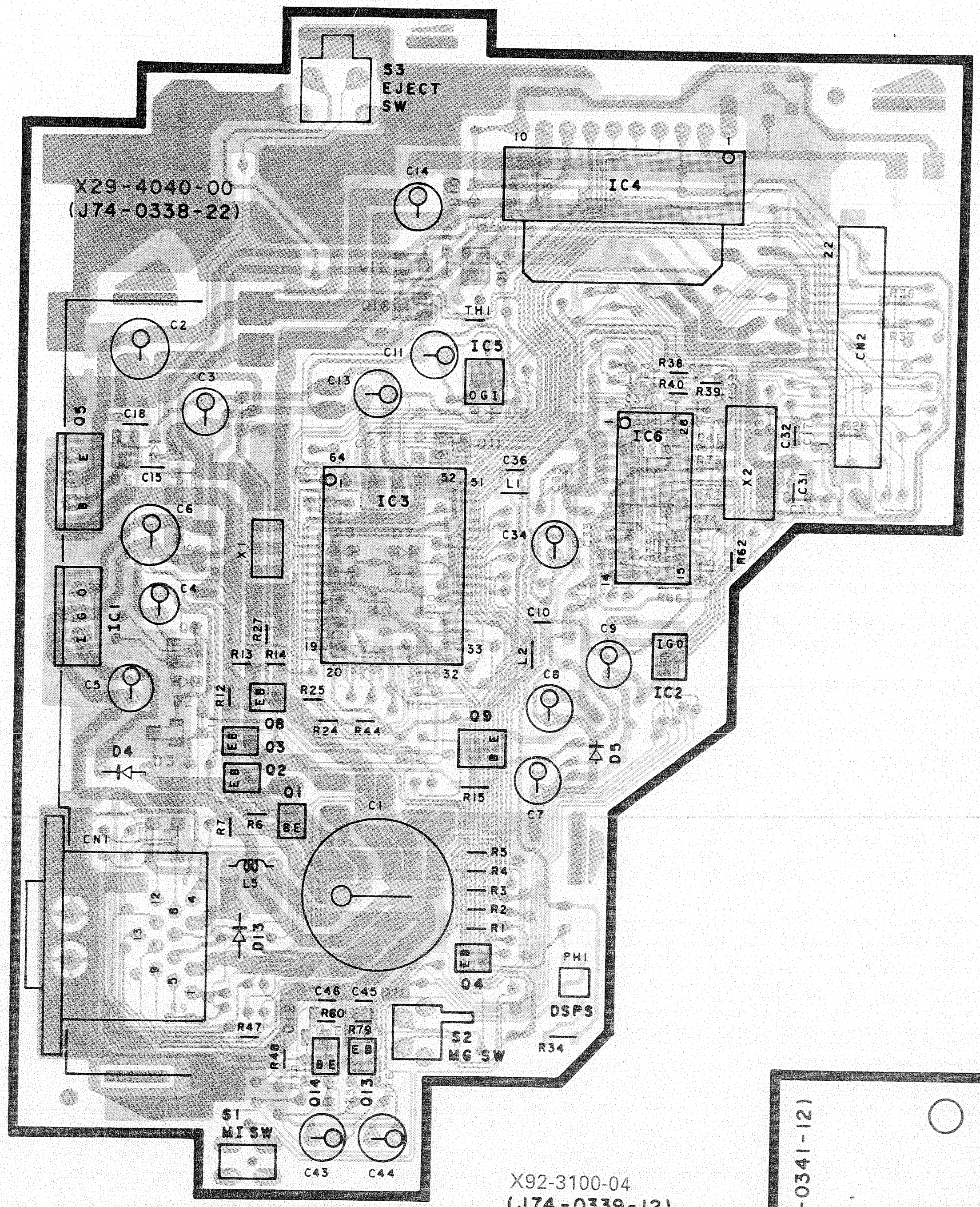


⑫ SL M.(SLED M. + and -)
200mV/cm 50ms

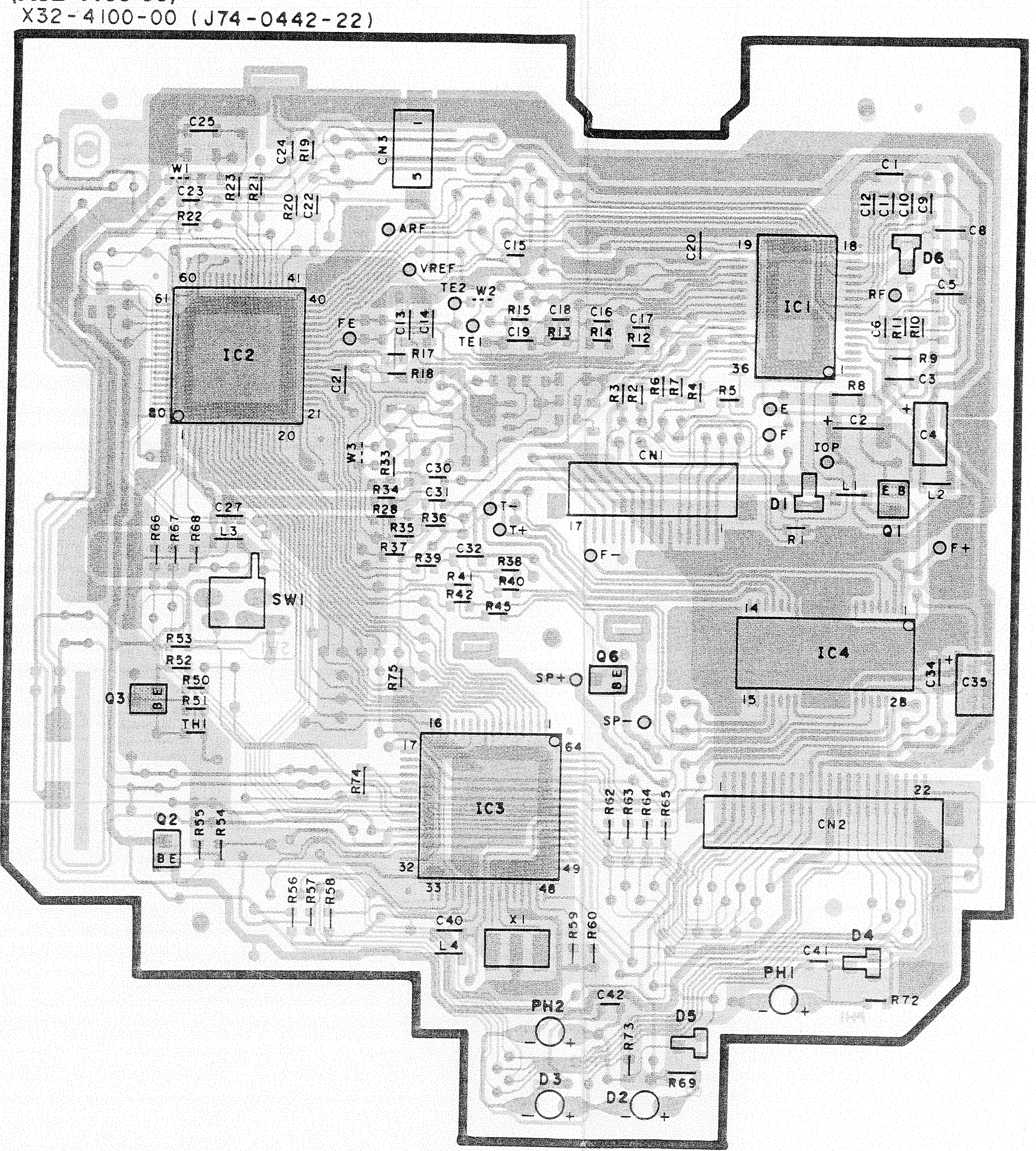


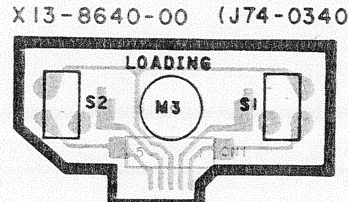
PC BOARD (Component side view)

CONTROL CIRCUIT UNIT (X29-4040-00)

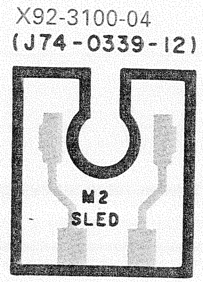

X29-4040-00
(J74-0338-22)
S3
EJECT
SW
IC4
IC5
IC6
IC3
IC1
IC2
X1
X2
CN1
CN2
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C13
C14
C15
C18
C34
C36
C43
C44
C45
C46
Q1
Q2
Q3
Q4
Q5
Q8
Q9
Q13
Q14
D4
D5
D13
L1
L2
L5
TH1
R1
R2
R3
R4
R5
R6
R7
R12
R13
R14
R15
R24
R25
R27
R34
R38
R39
R40
R44
R47
R48
R62
R79
R80
PH1
DSPS
S2
MG SW
S1
MI SW

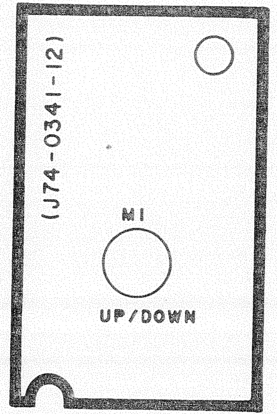
CD PLAYER UNIT
(X32-4100-00)


X32-4100-00 (J74-0442-22)
IC1
IC2
IC3
IC4
CN1
CN2
CN3
SW1
X1
Q1
Q2
Q3
Q6
D1
D2
D3
D4
D5
D6
PH1
PH2
ARF
VREF
TE2
W2
TE1
FE
RF
IOP
E
F
T-
T+
F-
F+
SP+
SP-
W1
W3
TH1
L1
L2
L3
L4
C1
C2
C3
C4
C5
C8
C15
C20
C21
C25
C27
C30
C31
C32
C34
C35
C40
C41
C42
R1
R5
R8
R9
R15
R17
R18
R39
R72
R73
R69


X13-8640-00 (J74-0340-12)
LOADING
S2
M3
S1

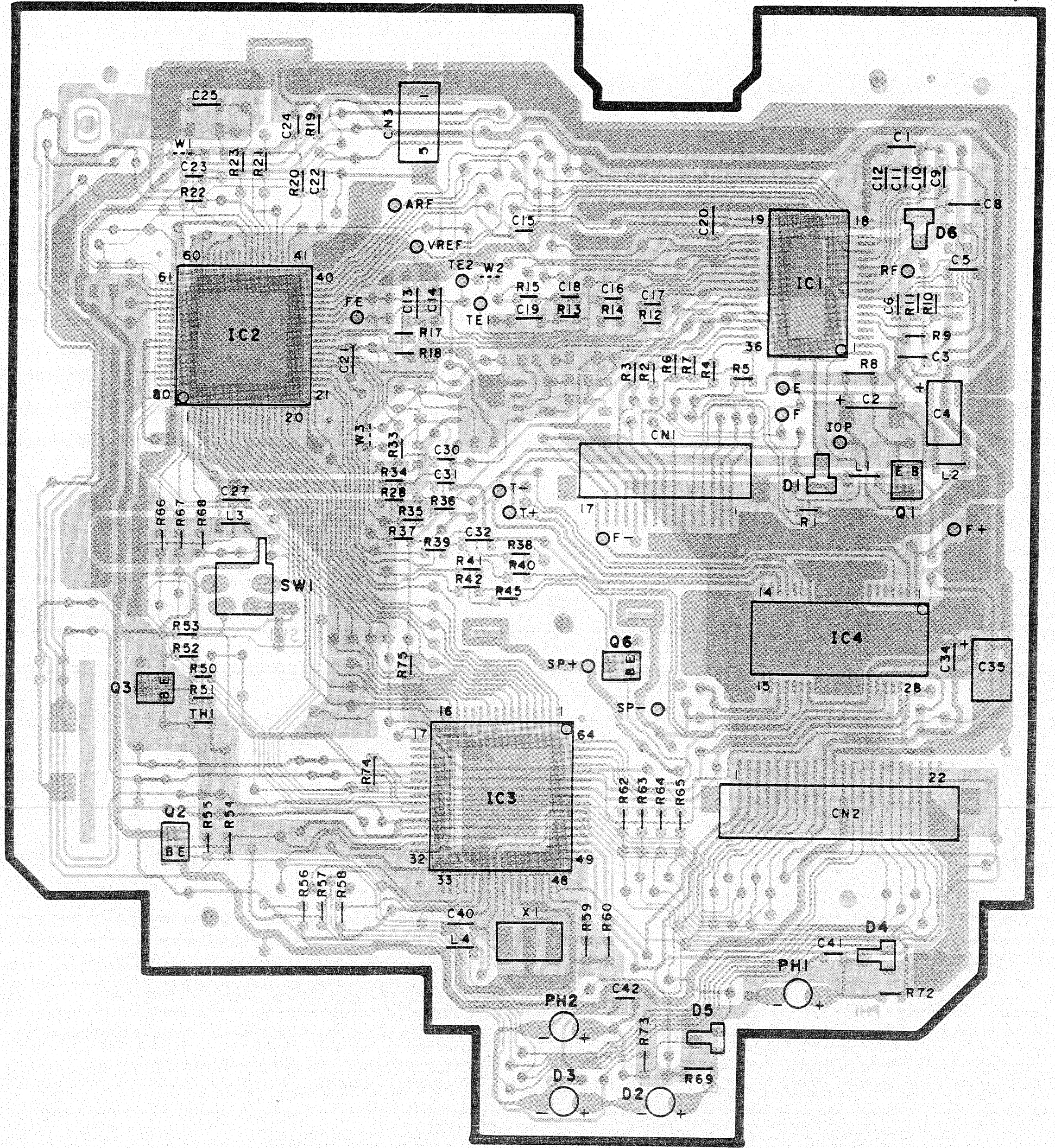
SUB CIRCUIT UNIT (X13-8640-00)


X92-3100-04
(J74-0339-12)
M2
SLED

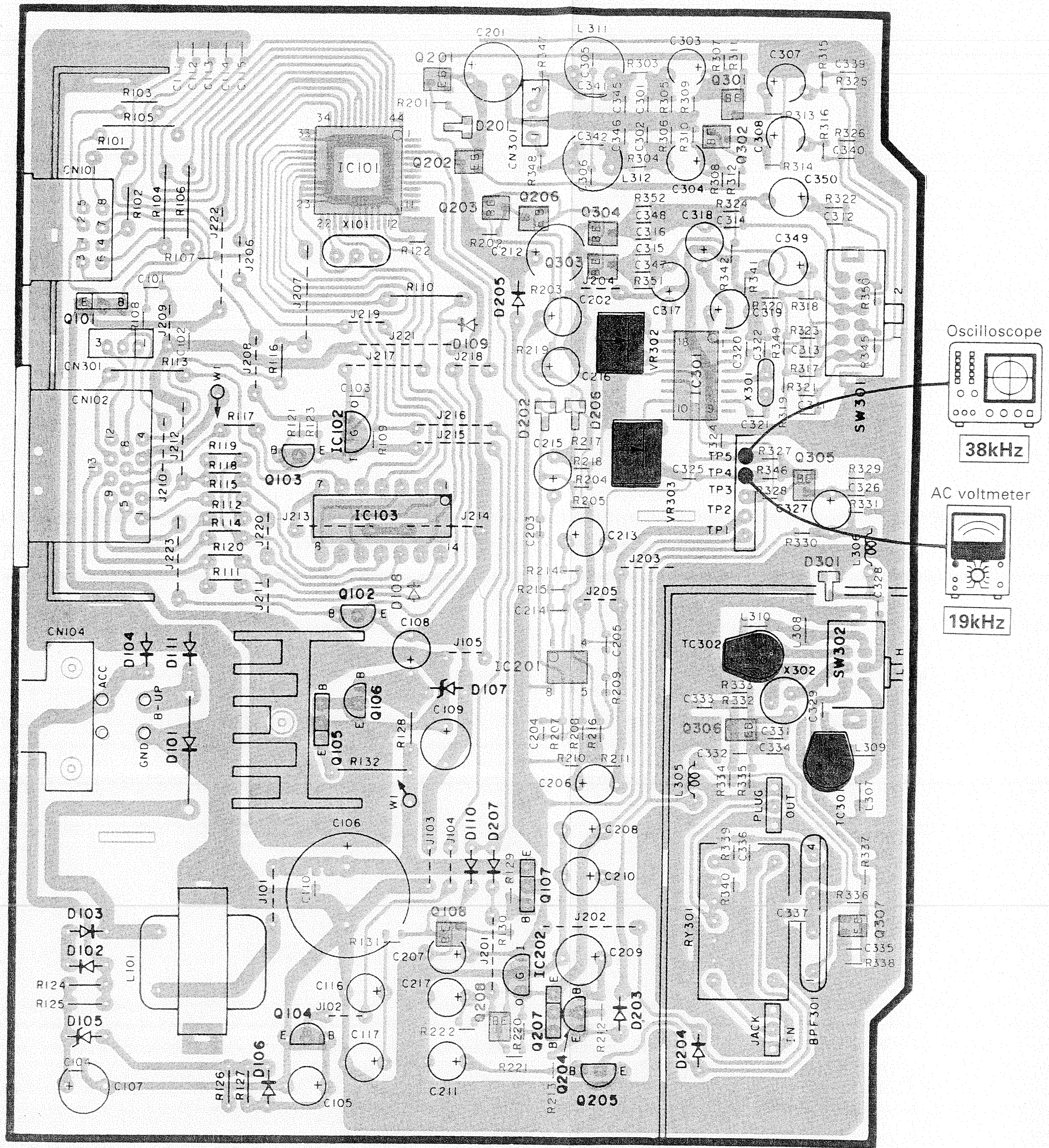

(J74-0341-12)
M1
UP/DOWN

CD PLAYER UNIT
(X32-4100-00)

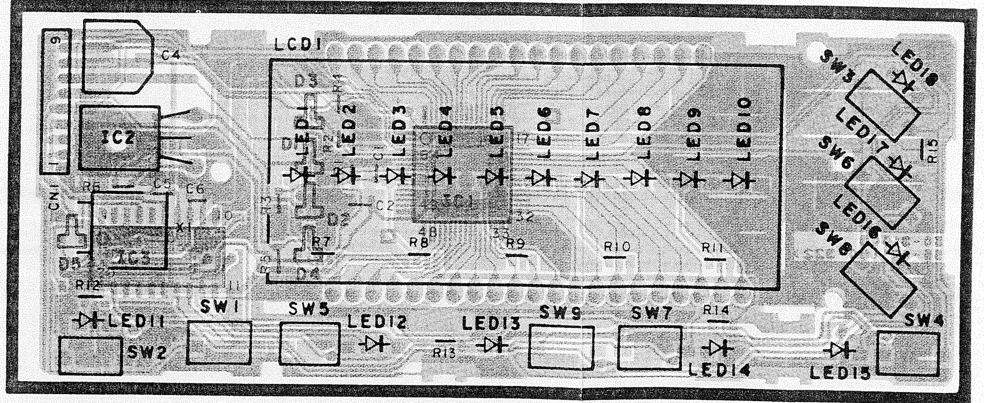
X32-4100-00 (J74-0442-22)


IC1
IC2
IC3
IC4
CN1
CN2
CN3
SW1
PH1
PH2
Q1
Q2
Q3
Q6
X1
ARF
VREF
TE
FE
RF
SP+
SP-
F+
F-
T+
T-

RF MODULATOR UNIT (W02-1481-05)


IC101
IC102
IC103
IC201
IC202
IC301
CN101
CN102
CN104
CN301
SW301
SW302
TP1
TP2
TP3
TP4
TP5
Oscilloscope
38kHz
AC voltmeter
19kHz
ACC
B-UP
GND
PLUG
OUT
JACK
IN

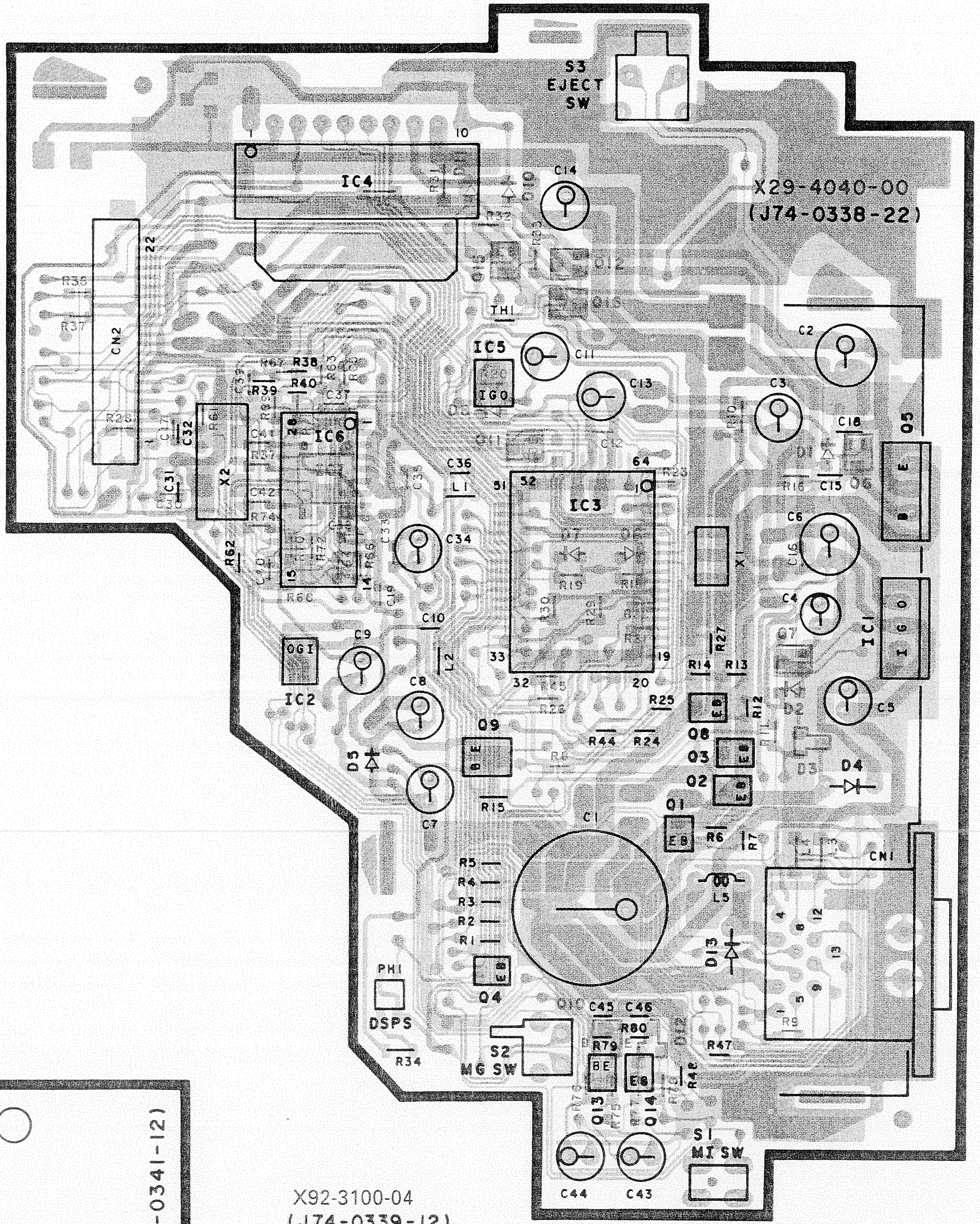
DISPLAY UNIT (T95-0219-08)

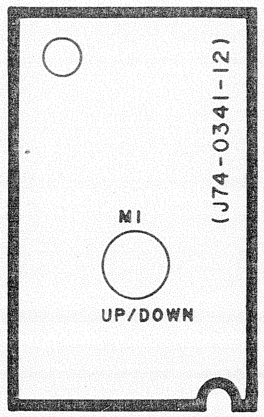

LCD1
IC1
IC2
IC3
CN1
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
LED9
LED10
LED11
LED12
LED13
LED14
LED15
LED16
LED17
LED18

Refer to the schematic diagram for the values of resistors and capacitors.

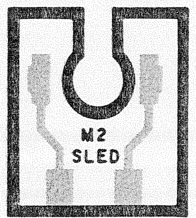
PC BOARD (Foil side view)

CONTROL CIRCUIT UNIT (X29-4040-00)

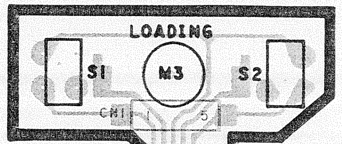

S3
EJECT
SW
IC4
X29-4040-00
(J74-0338-22)
CN2
IC5
IC6
IC3
IC1
IC2
X1
X2
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C13
C14
C16
C18
C34
C36
C44
C43
C45
C46
Q1
Q2
Q3
Q4
Q5
Q8
Q9
Q12
Q13
Q14
Q15
D1
D2
D3
D4
D5
D13
L5
CN1
PH1
DSPS
S2
MG SW
S1
MI SW
TH1
R1
R2
R3
R4
R5
R6
R12
R13
R14
R15
R24
R25
R27
R34
R38
R39
R40
R44
R47
R79
R80


(J74-0341-12)
M1
UP/DOWN

X92-3100-04
(J74-0339-12)



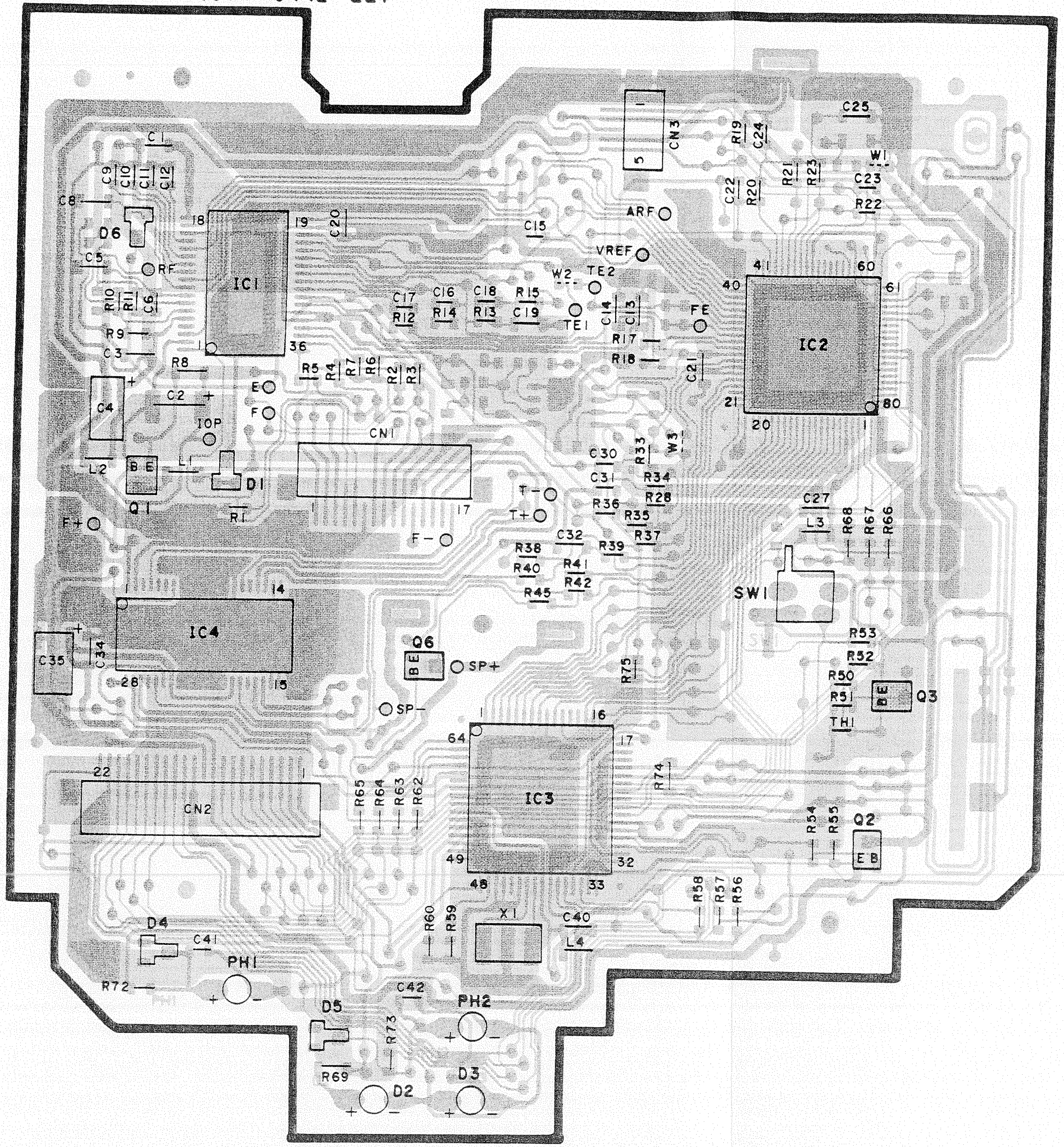
X13-8640-00 (J74-0340-12)

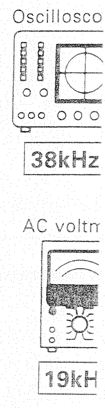

LOADING
S1
M3
S2
CN1

SUB CIRCUIT UNIT (X13-8640-00)

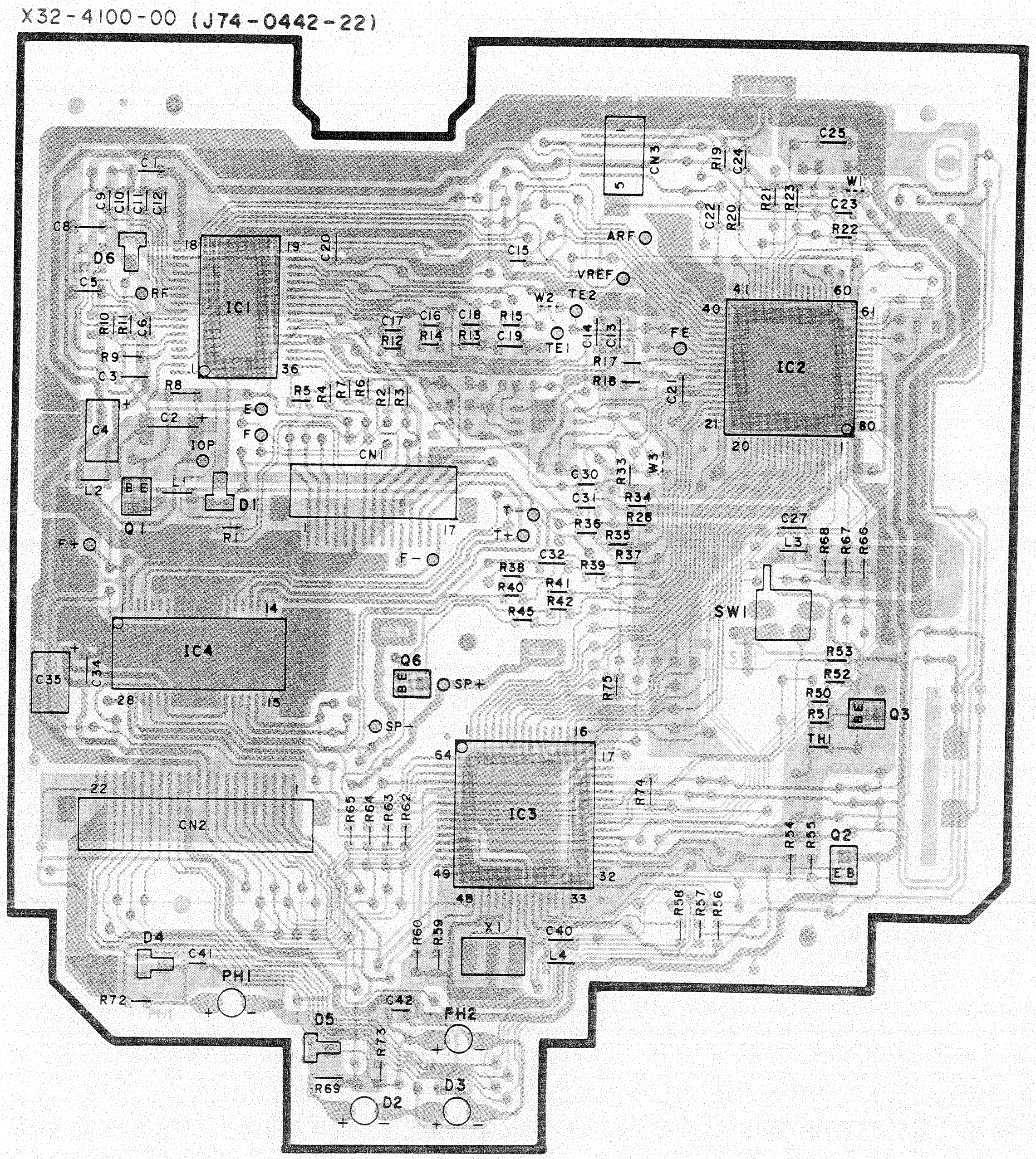
CD PLAYER UNIT
(X32-4100-00)

X32-4100-00 (J74-0442-22)

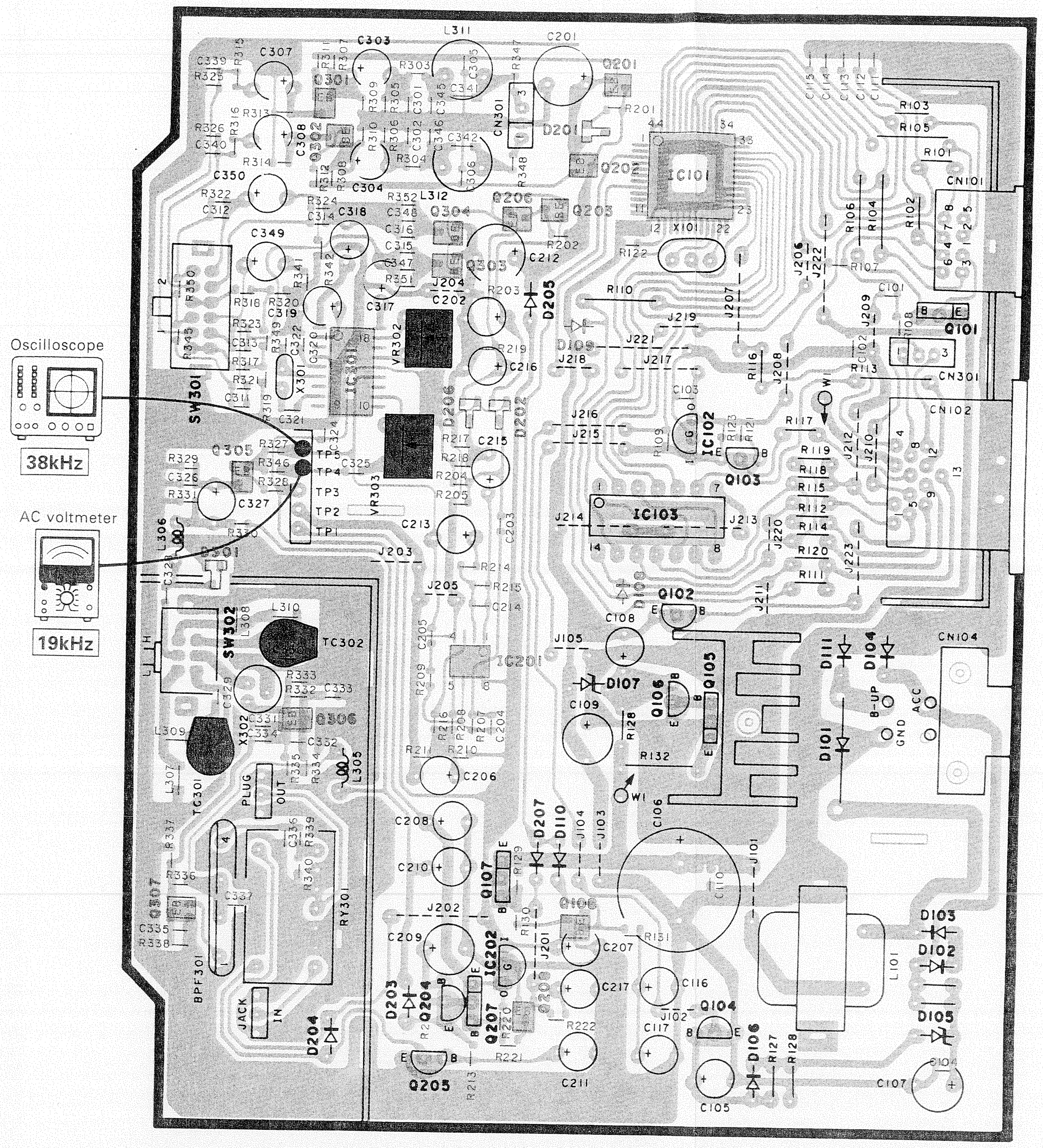

CN3
IC1
IC2
IC3
IC4
CN1
CN2
X1
SW1
Q1
Q2
Q3
Q6
D1
D2
D3
D4
D5
D6
PH1
PH2
RF
ARF
VREF
FE
TE1
TE2
W1
W2
W3
E
F
F+
F−
T+
T−
SP+
SP−
IOP
TH1
L2
L3
L4
C1
C2
C3
C4
C5
C6
C8
C9
C10
C11
C12
C13
C14
C15
C16
C17
C18
C19
C20
C21
C22
C23
C24
C25
C27
C30
C31
C32
C34
C35
C40
C41
C42
R1
R2
R3
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R17
R18
R19
R20
R21
R22
R23
R28
R33
R34
R35
R36
R37
R38
R39
R40
R41
R42
R45
R50
R51
R52
R53
R54
R55
R56
R57
R58
R59
R60
R62
R63
R64
R65
R66
R67
R68
R69
R72
R73
R74
R75


Oscillosco
38kHz
AC voltm
19kH

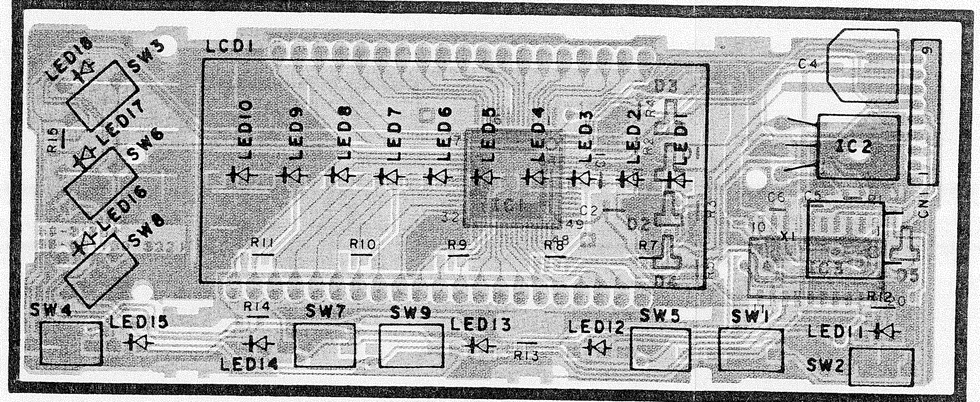
CD PLAYER UNIT
(X32-4100-00)


X32-4100-00 (J74-0442-22)
IC1
IC2
IC3
IC4
CN1
CN2
CN3
SW1
PH1
PH2
X1

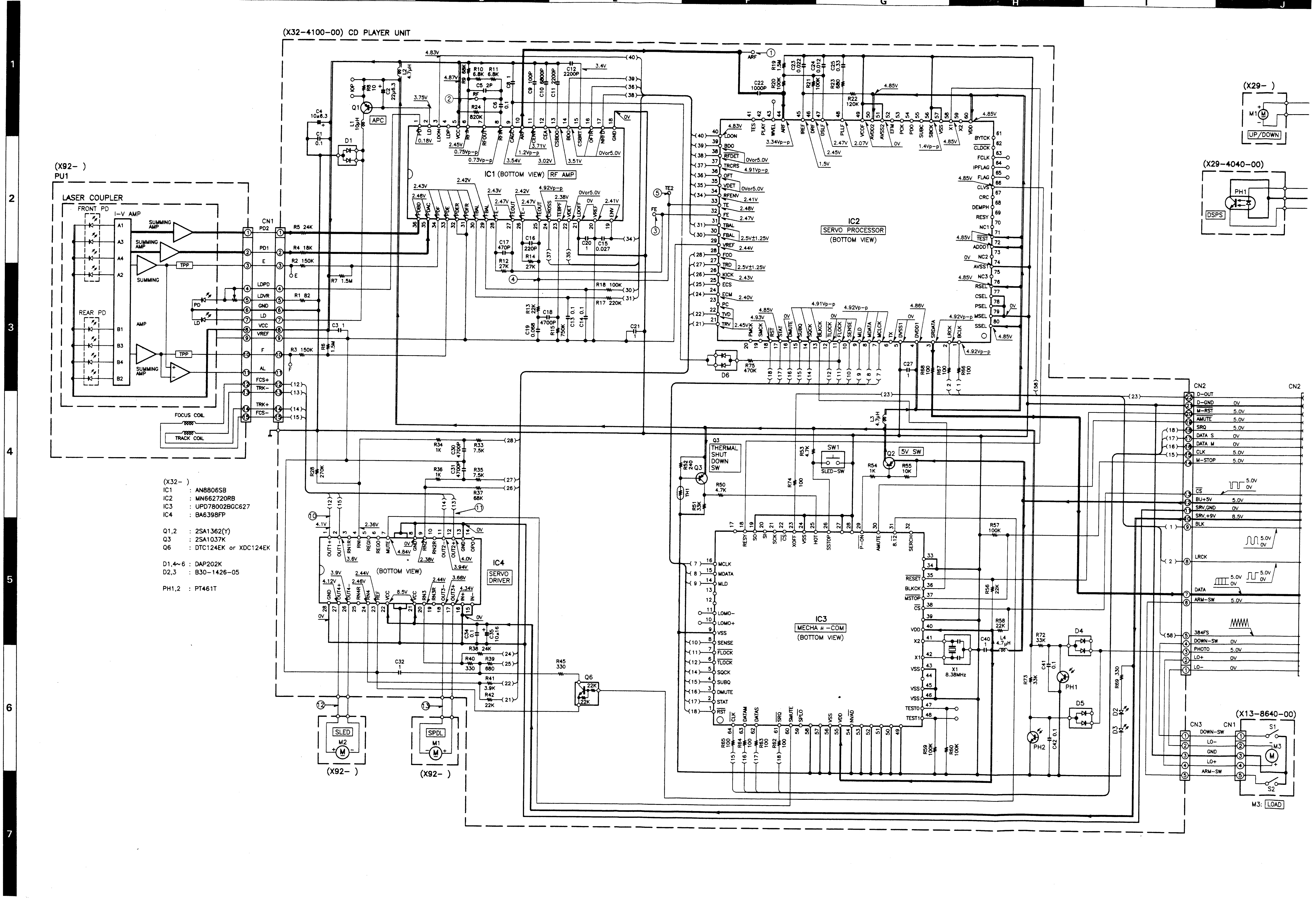
RF MODULATOR UNIT (W02-1481-05)


Oscilloscope
38kHz
AC voltmeter
19kHz
IC101
IC102
IC103
IC201
IC202
IC301
SW301
SW302
CN101
CN102
CN104
CN301
TP1
TP2
TP3
TP4
TP5
B-UP
GND
ACC
JACK
PLUG
IN
OUT
RY301
BPF301
X101
X301
X302

DISPLAY UNIT (T95-0219-08)


LCD1
IC1
IC2
X1
CN1
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
LED9
LED10
LED11
LED12
LED13
LED14
LED15
LED16
LED17
LED18

Refer to the schematic diagram for the values of resistors and capacitors.

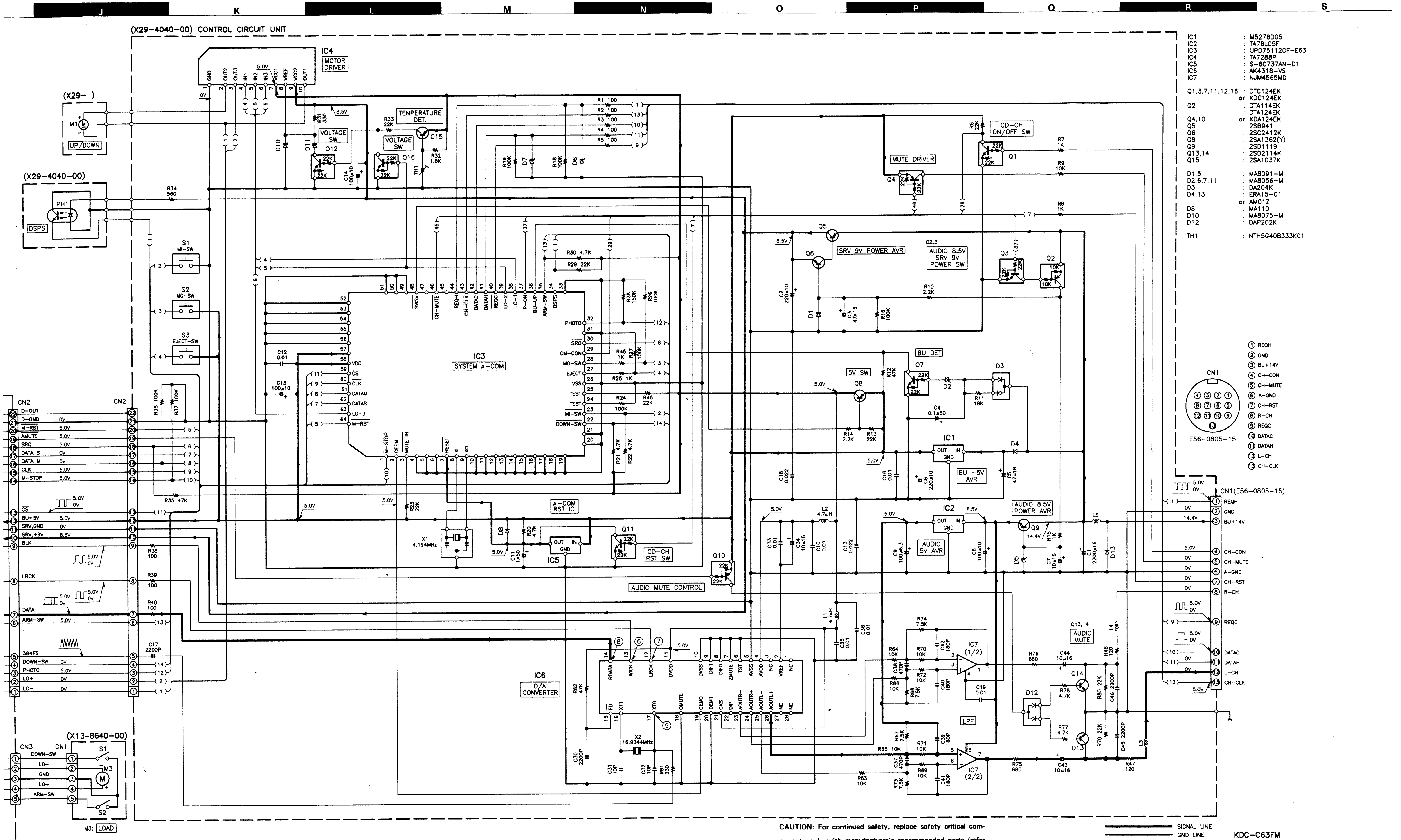

(X32-4100-00) CD PLAYER UNIT
(X92-)
PU1
LASER COUPLER
FRONT PD
I-V AMP
SUMMING AMP
SUMMING
TPP
REAR PD
AMP
FOCUS COIL
TRACK COIL
CN1
APC
IC1 (BOTTOM VIEW) RF AMP
IC2
SERVO PROCESSOR
(BOTTOM VIEW)
IC3
MECHA μ-COM
(BOTTOM VIEW)
IC4
SERVO DRIVER
(BOTTOM VIEW)
Q3
THERMAL SHUT DOWN SW
SW1
SLED-SW
Q2
5V SW
X1
8.38MHz
SLED
M2
SPDL
M1
(X92-)
(X92-)
(X29-)
M1
UP/DOWN
(X29-4040-00)
PH1
DSPS
CN2
D-OUT
D-GND
M-RST
AMUTE
SRQ
DATA S
DATA M
CLK
M-STOP
CS
BU+5V
SRV,GND
SRV,+9V
BLK
LRCK
DATA
ARM-SW
384FS
DOWN-SW
PHOTO
LO+
LO-
(X13-8640-00)
CN3
CN1
DOWN-SW
LO-
GND
LO+
ARM-SW
S1
S2
M3
M3: LOAD
PH1
PH2
D4
D5
Q6
1
2
3
4
5
6
7
G
H
J

(X32-)
IC1 : AN8806SB
IC2 : MN662720RB
IC3 : UPD78002BGC627
IC4 : BA6398FP

Q1,2 : 2SA1362(Y)
Q3 : 2SA1037K
Q6 : DTC124EK or XDC124EK

D1,4~6 : DAP202K
D2,3 : B30-1426-05

PH1,2 : PT461T


J
K
L
M
N
O
P
Q
R
S
(X29-4040-00) CONTROL CIRCUIT UNIT
IC4
MOTOR DRIVER
(X29-)
M1
UP/DOWN
(X29-4040-00)
PH1
DSPS
S1
MI-SW
S2
MG-SW
S3
EJECT-SW
VOLTAGE SW
Q12
VOLTAGE SW
Q16
TENPERATURE DET.
Q15
TH1
IC3
SYSTEM μ-COM
CD-CH ON/OFF SW
Q1
MUTE DRIVER
Q4
SRV 9V POWER AVR
Q5
Q6
AUDIO 8.5V SRV 9V POWER SW
Q2,3
Q3
Q2
BU DET
Q7
D3
5V SW
Q8
IC1
BU +5V AVR
D4
IC2
AUDIO 5V AVR
AUDIO 8.5V POWER AVR
Q9
μ-COM RST IC
IC5
X1 4.194MHz
Q11
CD-CH RST SW
Q10
AUDIO MUTE CONTROL
IC6
D/A CONVERTER
X2 16.9344MHz
IC7 (1/2)
IC7 (2/2)
LPF
Q13,14
AUDIO MUTE
Q14
Q13
D12
CN2
D-OUT
D-GND
M-RST
AMUTE
SRQ
DATA S
DATA M
CLK
M-STOP
CS
BU+5V
SRV,GND
SRV,+9V
BLK
LRCK
DATA
ARM-SW
384FS
DOWN-SW
PHOTO
LO+
LO-
(X13-8640-00)
CN3
CN1
DOWN-SW
LO-
GND
LO+
ARM-SW
M3
M3: LOAD
CN1
E56-0805-15
① REQH
② GND
③ BU+14V
④ CH-CON
⑤ CH-MUTE
⑥ A-GND
⑦ CH-RST
⑧ R-CH
⑨ REQC
⑩ DATAC
⑪ DATAH
⑫ L-CH
⑬ CH-CLK
CN1(E56-0805-15)
REQH
GND
BU+14V
CH-CON
CH-MUTE
A-GND
CH-RST
R-CH
REQC
DATAC
DATAH
L-CH
CH-CLK
5.0V
8.5V
14.4V
0V

IC1	:	M5278D05
IC2	:	TA78L05F
IC3	:	UPD75112GF-E63
IC4	:	TA7288P
IC5	:	S-80737AN-D1
IC6	:	AK4318-VS
IC7	:	NJM4565MD
Q1,3,7,11,12,16	:	DTC124EK
	or	XDC124EK
Q2	:	DTA114EK
	:	DTA124EK
Q4,10	or	XDA124EK
Q5	:	2SB941
Q6	:	2SC2412K
Q8	:	2SA1362(Y)
Q9	:	2SD1119
Q13,14	:	2SD2114K
Q15	:	2SA1037K
D1,5	:	MA8091-M
D2,6,7,11	:	MA8056-M
D3	:	DA204K
D4,13	:	ERA15-01
	or	AM01Z
D8	:	MA110
D10	:	MA8075-M
D12	:	DAP202K
TH1	:	NTH5G40B333K01

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

SIGNAL LINE
GND LINE
+B LINE

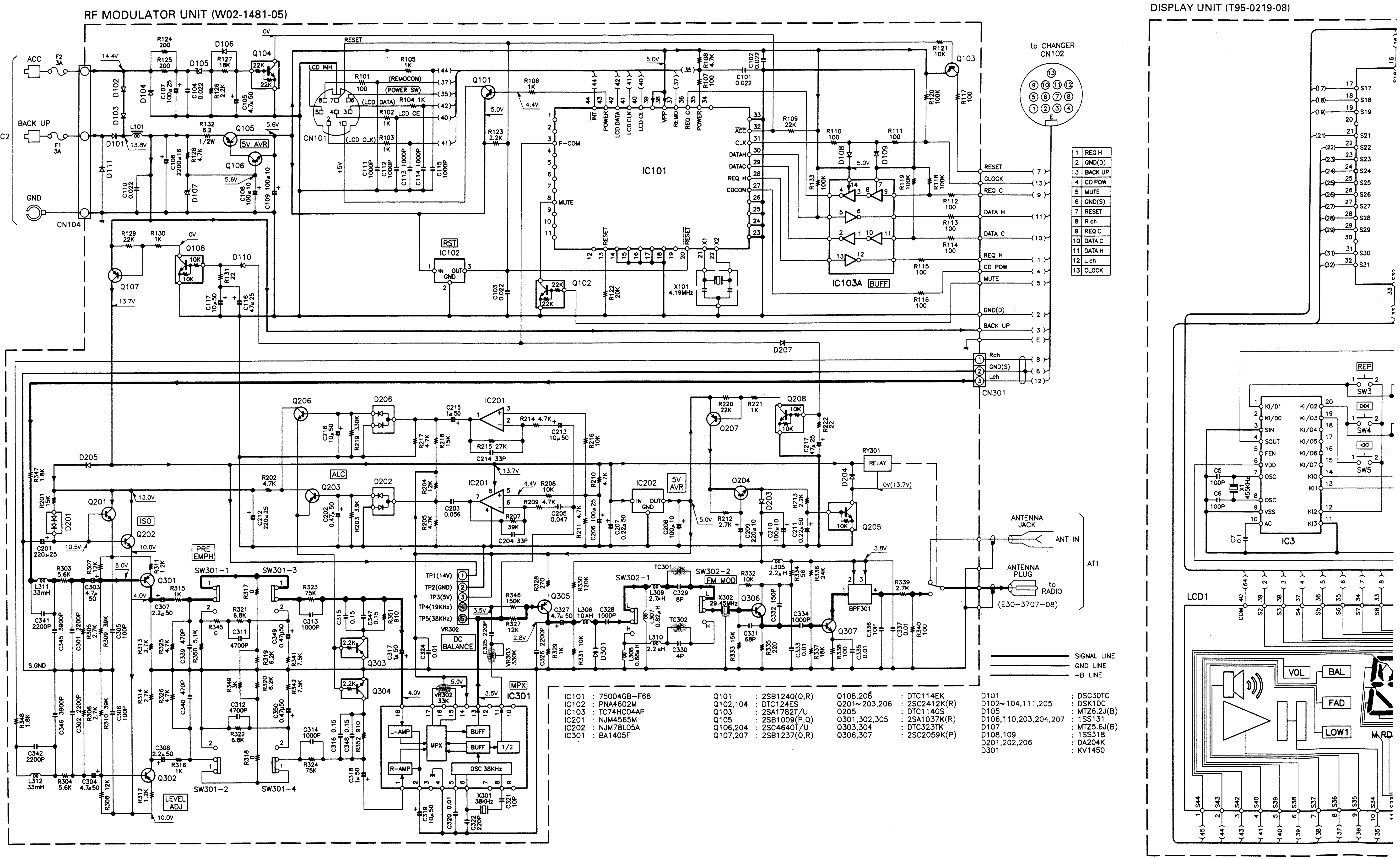
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Y22-5230-61

KDC-C63FM

KDC-C63FM

KENWOOD


T
U
V
W
X
Y
Z
AA
AB
AC
RF MODULATOR UNIT (W02-1481-05)
DISPLAY UNIT (T95-0219-08)
ACC
BACK UP
GND
DC2
CN104
CN101
IC101
IC102
IC103A BUFF
RST
5V AVR
to CHANGER CN102
CN301
RELAY
RY301
ANTENNA JACK
ANT IN
ANTENNA PLUG
to RADIO
(E30-3707-08)
AT1
PRE EMPH
ISO
ALC
LEVEL ADJ
DC BALANCE
MPX
IC301
L-AMP
R-AMP
BUFF
1/2
OSC 38KHz
X301 38KHz
X101 4.19MHz
X302 29.45MHz
SW301-1
SW301-2
SW301-3
SW301-4
SW302-1
SW302-2
FM MOD
BPF301
TP1(14V)
TP2(GND)
TP3(5V)
TP4(19KHz)
TP5(38KHz)
IC201
IC202
IC3
LCD1
REP
SW3
SW4
SW5
VOL
BAL
FAD
LOW1
SIGNAL LINE
GND LINE
+B LINE

1	REQ H
2	GND(D)
3	BACK UP
4	CD POW
5	MUTE
6	GND(S)
7	RESET
8	R ch
9	REQ C
10	DATA C
11	DATA H
12	L ch
13	CLOCK

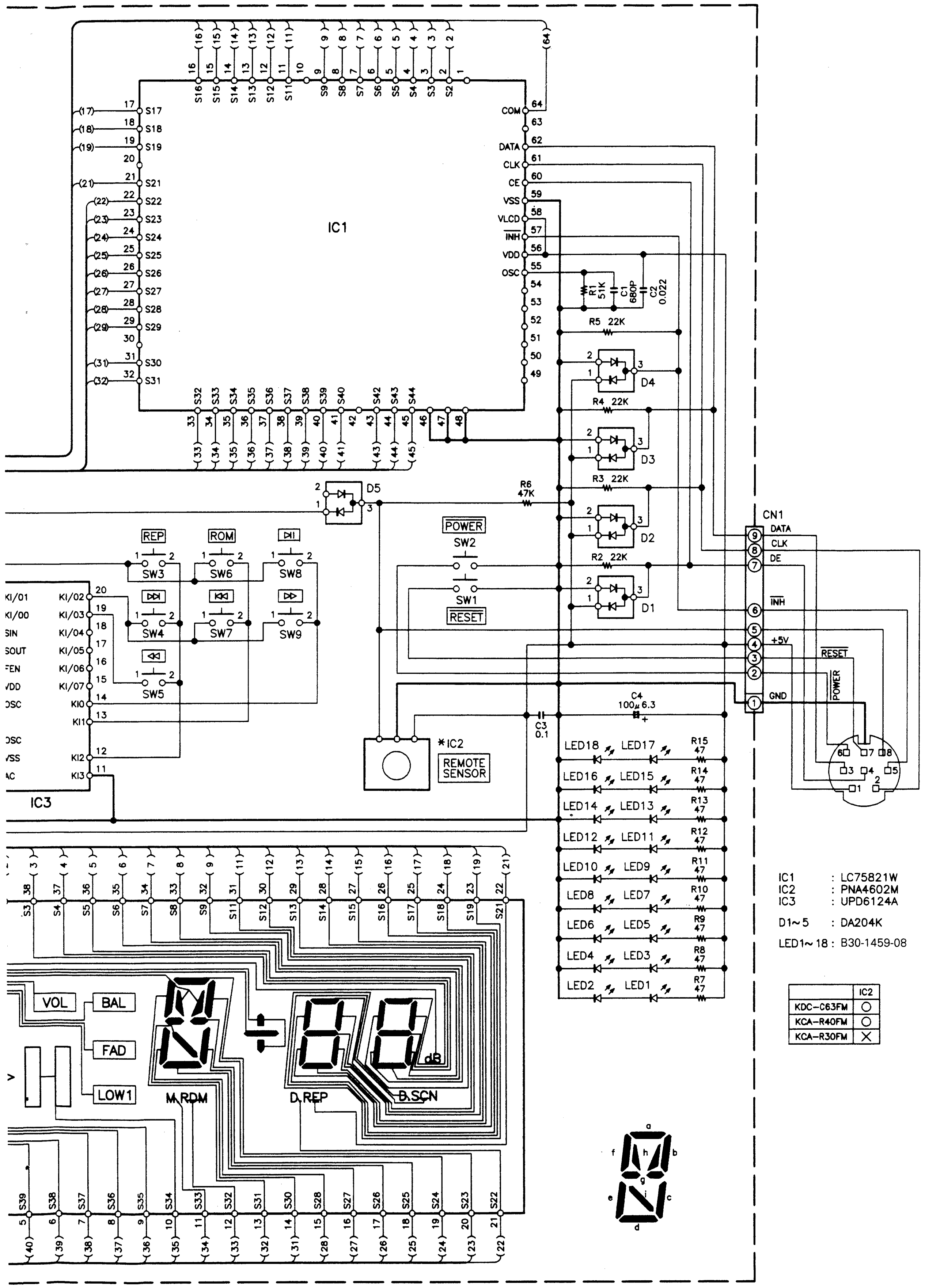
IC101 : 75004GB-F68
IC102 : PNA4602M
IC103 : TC74HC04AP
IC201 : NJM4565M
IC202 : NJM78L05A
IC301 : BA1405F

Q101 : 2SB1240(Q,R)
Q102,104 : DTC124ES
Q103 : 2SA1782T/U
Q105 : 2SB1009(P,Q)
Q106,204 : 2SC4640T/U
Q107,207 : 2SB1237(Q,R)

Q108,208 : DTC114EK
Q201~203,206 : 2SC2412K(R)
Q205 : DTC114GS
Q301,302,305 : 2SA1037K(R)
Q303,304 : DTC323TK
Q306,307 : 2SC2059K(P)

D101 : DSC30TC
D102~104,111,205 : DSK10C
D105 : MTZ6.2J(B)
D106,110,203,204,207 : 1SS131
D107 : MTZ5.6J(B)
D108,109 : 1SS318
D201,202,206 : DA204K
D301 : KV1450

9-08)


IC1
COM
DATA
CLK
CE
VSS
VLCD
INH
VDD
OSC
R1 51K
C1 680P
C2 0.022
R5 22K
R4 22K
R3 22K
R2 22K
R6 47K
D1
D2
D3
D4
D5
CN1
DATA
CLK
DE
INH
+5V
RESET
POWER
GND
REP
ROM
SW3
SW4
SW5
SW6
SW7
SW8
SW9
POWER
SW2
SW1
RESET
*IC2
REMOTE SENSOR
IC3
C4 100μ6.3
C3 0.1
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
LED9
LED10
LED11
LED12
LED13
LED14
LED15
LED16
LED17
LED18
R7 47
R8 47
R9 47
R10 47
R11 47
R12 47
R13 47
R14 47
R15 47
VOL
BAL
FAD
LOW1
M.RDM
D.REP
B.SCN
dB
a
b
c
d
e
f
g
h

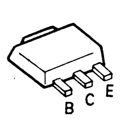
IC1 : LC75821W
IC2 : PNA4602M
IC3 : UPD6124A

D1~5 : DA204K

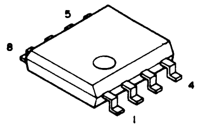
LED1~18 : B30-1459-08

	IC2
KDC−C63FM	○
KCA−R40FM	○
KCA−R30FM	✕

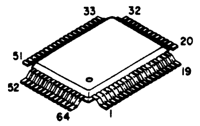
KDC−C63FM



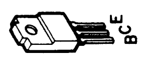
2SD1119



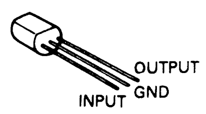
NJM4565M
NJM4565MD


33
32
51
20
52
19
64
1

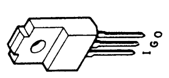
UPD75112GF-E63



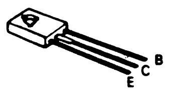
2SB941


OUTPUT
INPUT
GND

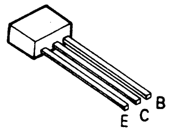
PST520F



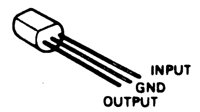
M5278D05



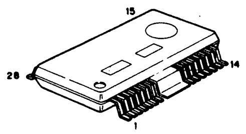
2SB1009



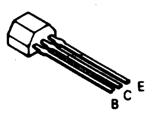
2SB1240


INPUT
GND
OUTPUT

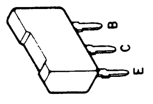
NJM78L05A



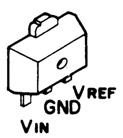
BA6398FP



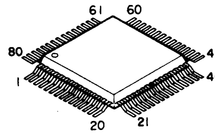
DTC124ES
2SA1782T/U
2SC4640T/U



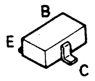
2SB1237


VREF
GND
VIN

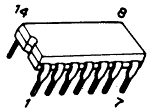
TA78L05F


61
60
80
41
1
40
20
21

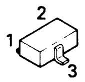
MN662720RB



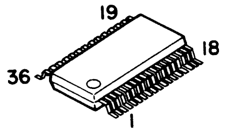
DTA114EK
DTA124EK
DTC114EK
DTC124EK
DTC323TK
XDA124EK
XDC124EK
2SA1037K
2SA1362
2SC2059K
2SC2412K
2SD2114K



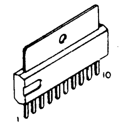
TC74HC04AP



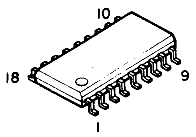
DA204K



AN8806SB



TA7288P



BA1405F

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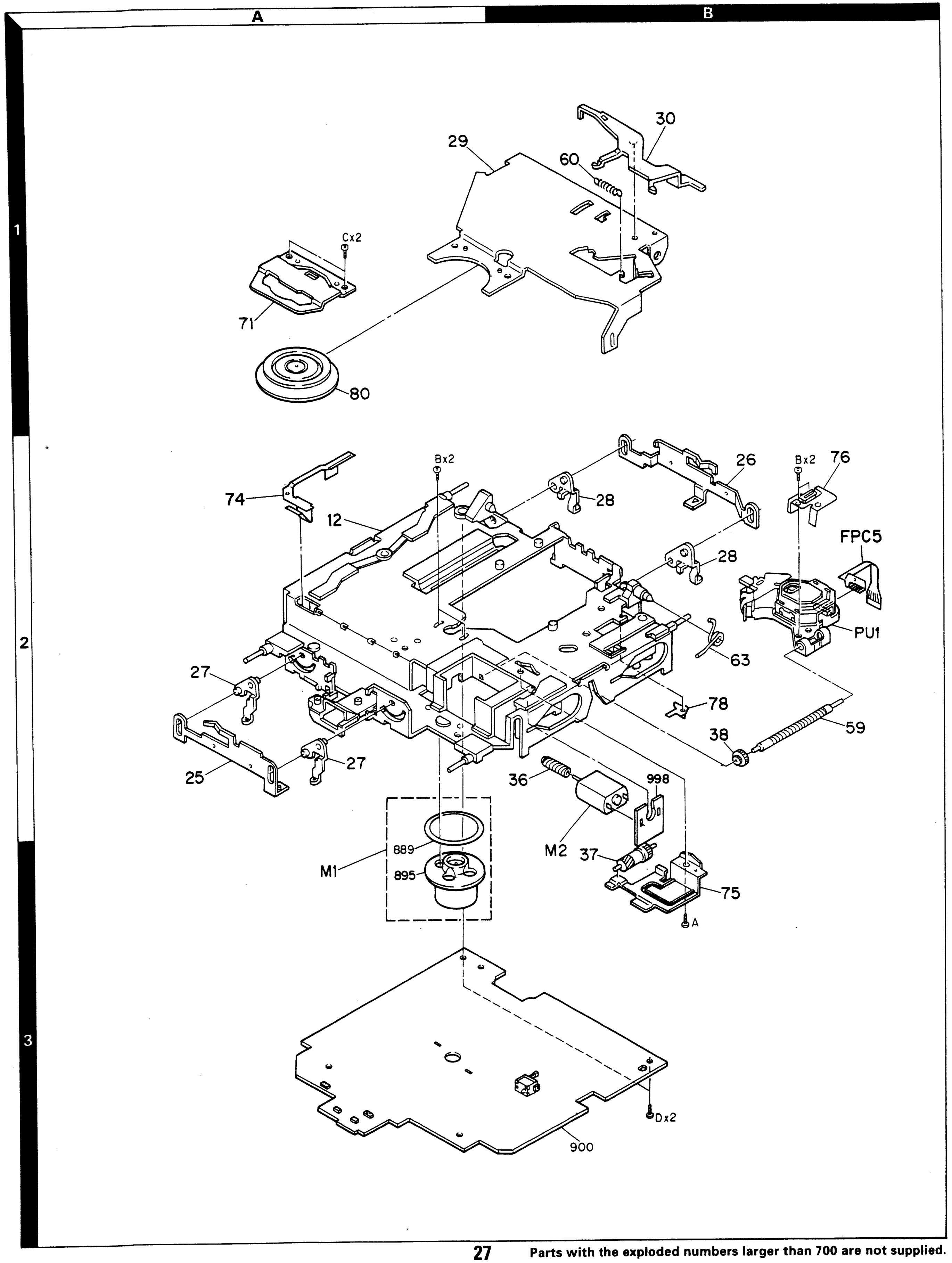
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

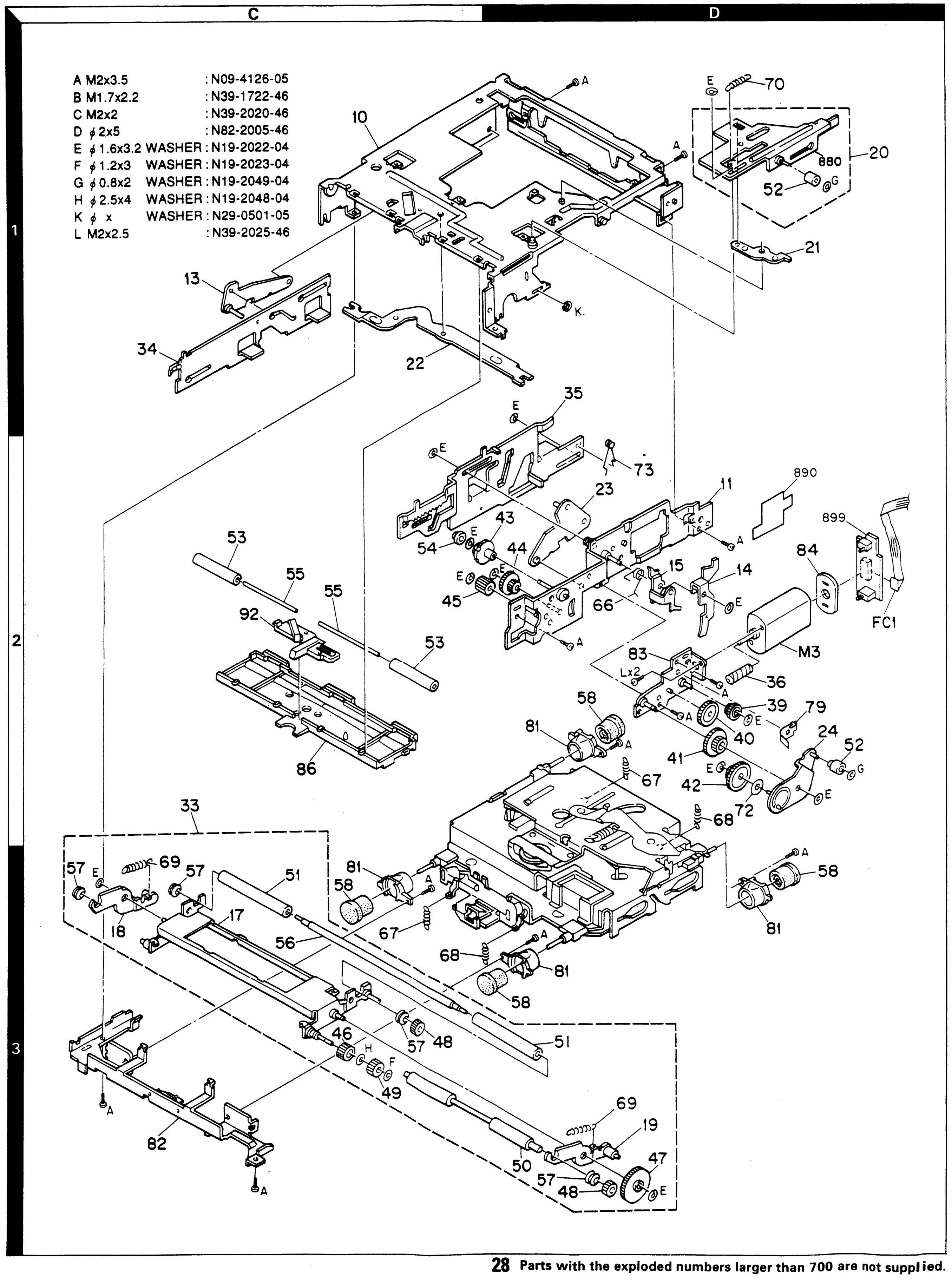
Y22-5230-61

KDC-C63FM
KENWOOD

EXPLODED VIEW (MECHANISM)


A
B
1
2
3
30
29
60
Cx2
71
80
Bx2
26
Bx2
76
74
12
28
28
FPC5
PU1
63
27
78
59
38
27
25
36
998
M1
889
895
M2
37
75
A
Dx2
900

EXPLODED VIEW (MECHANISM)

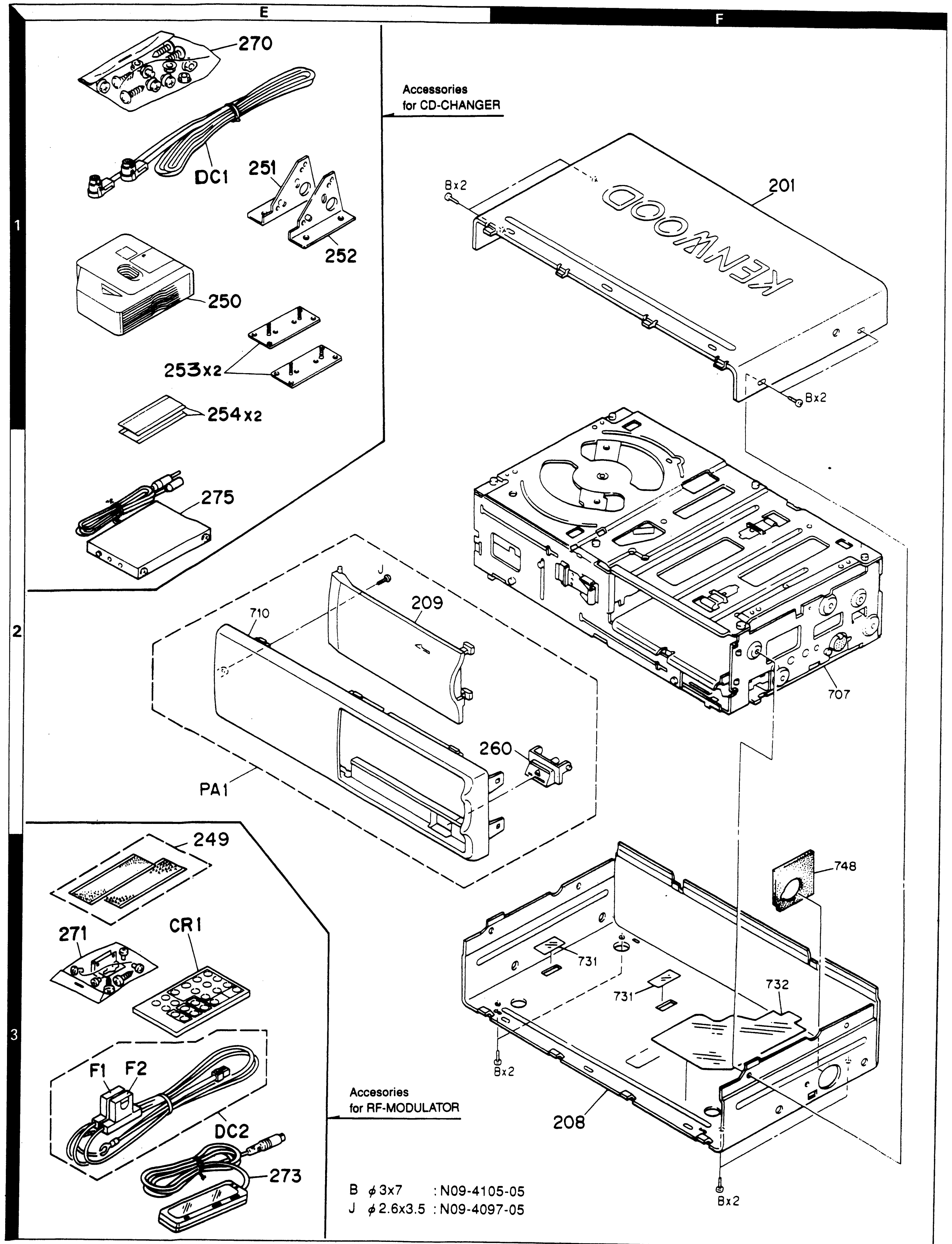


A	M2x3.5	: N09-4126-05
B	M1.7x2.2	: N39-1722-46
C	M2x2	: N39-2020-46
D	ϕ 2x5	: N82-2005-46
E	ϕ 1.6x3.2 WASHER	: N19-2022-04
F	ϕ 1.2x3 WASHER	: N19-2023-04
G	ϕ 0.8x2 WASHER	: N19-2049-04
H	ϕ 2.5x4 WASHER	: N19-2048-04
K	ϕ x WASHER	: N29-0501-05
L	M2x2.5	: N39-2025-46

C
D
1
2
3
10
A
E
70
20
880
52
G
21
13
K
34
22
35
E
73
E
23
11
890
899
53
43
54
44
84
45
15
14
55
55
66
FC1
92
53
M3
83
Lx2
36
58
39
79
81
40
24
52
41
67
42
72
68
33
69
57
57
51
81
58
18
17
67
56
68
81
58
46
57
48
51
H
F
49
69
19
82
47
50
57
48

KDC-C63FM KDC-C63FM

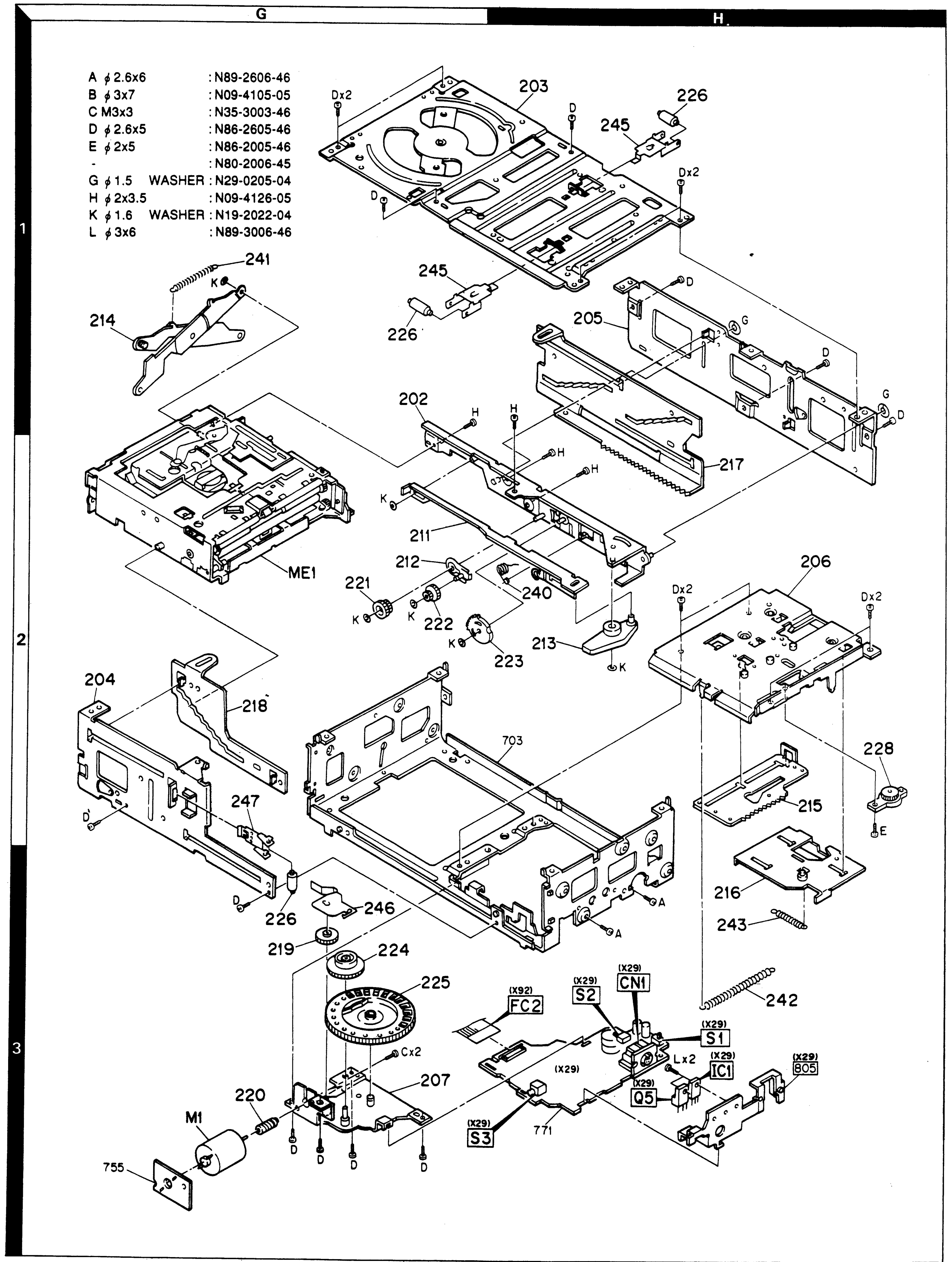
EXPLODED VIEW (UNIT)


E
F
1
2
3
270
DC1
251
252
250
253x2
254x2
275
Accessories
for CD-CHANGER
Bx2
201
Bx2
209
J
710
707
260
PA1
249
271
CR1
F1
F2
DC2
273
Accesories
for RF-MODULATOR
748
731
731
732
208
Bx2
Bx2

B	ϕ3x7	:N09-4105-05
J	ϕ2.6x3.5	:N09-4097-05

Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)

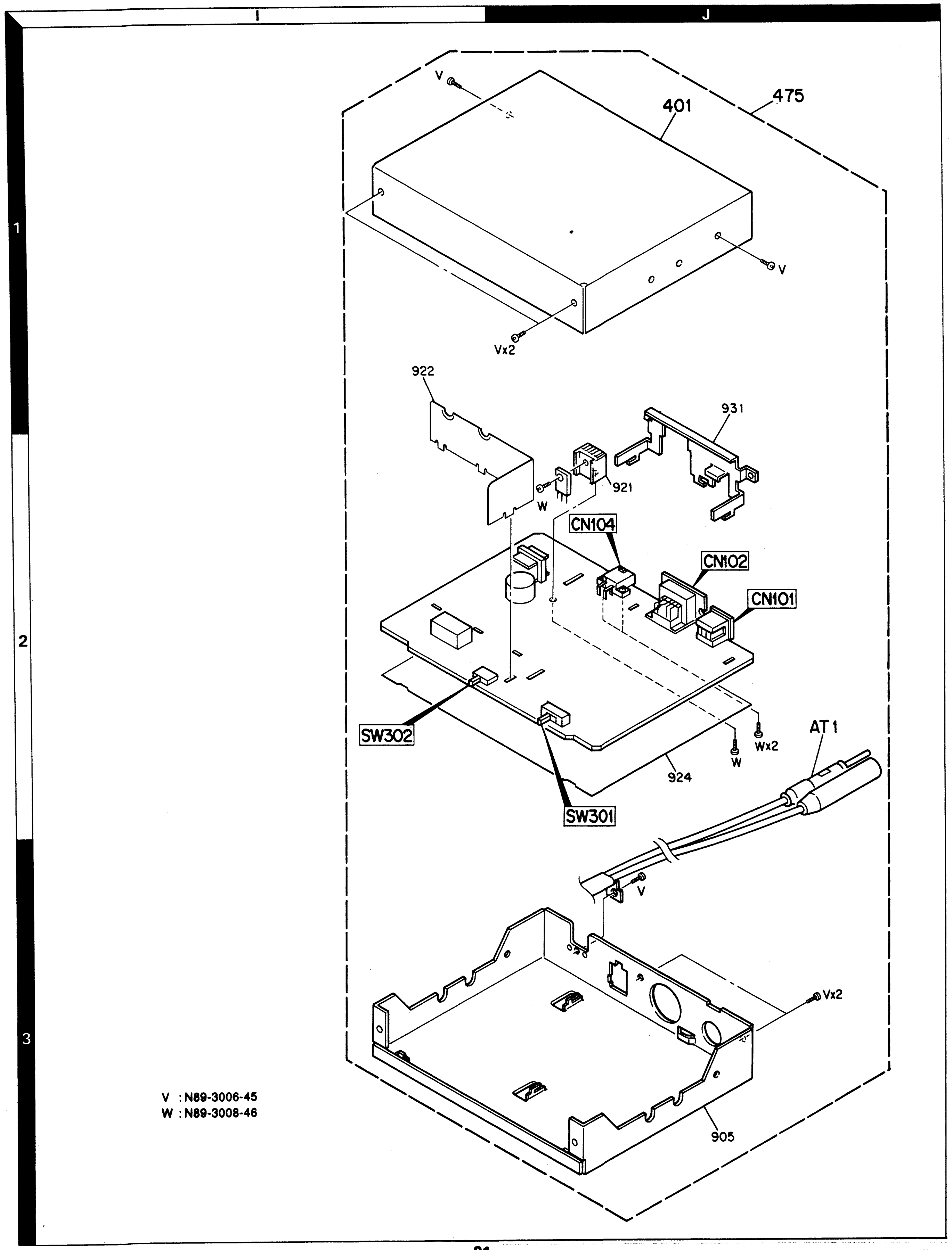

G
H
1
2
3
Dx2
203
226
D
245
Dx2
D
241
K
214
245
226
205
D
G
D
G
D
202
H
H
H
H
217
K
ME1
211
212
221
K
K
240
222
223
213
K
206
Dx2
Dx2
204
218
703
228
215
E
D
247
A
A
216
243
D
226
246
219
224
225
(X92)
FC2
(X29)
S2
(X29)
CN1
242
(X29)
S1
Cx2
(X29)
Lx2
(X29)
IC1
(X29)
805
(X29)
Q5
207
220
M1
(X29)
S3
771
D
D
D
D
755

A	ϕ2.6x6		:N89-2606-46
B	ϕ3x7		:N09-4105-05
C	M3x3		:N35-3003-46
D	ϕ2.6x5		:N86-2605-46
E	ϕ2x5		:N86-2005-46
-			:N80-2006-45
G	ϕ1.5	WASHER	:N29-0205-04
H	ϕ2x3.5		:N09-4126-05
K	ϕ1.6	WASHER	:N19-2022-04
L	ϕ3x6		:N89-3006-46

Parts with the exploded numbers larger than 700 are not supplied.

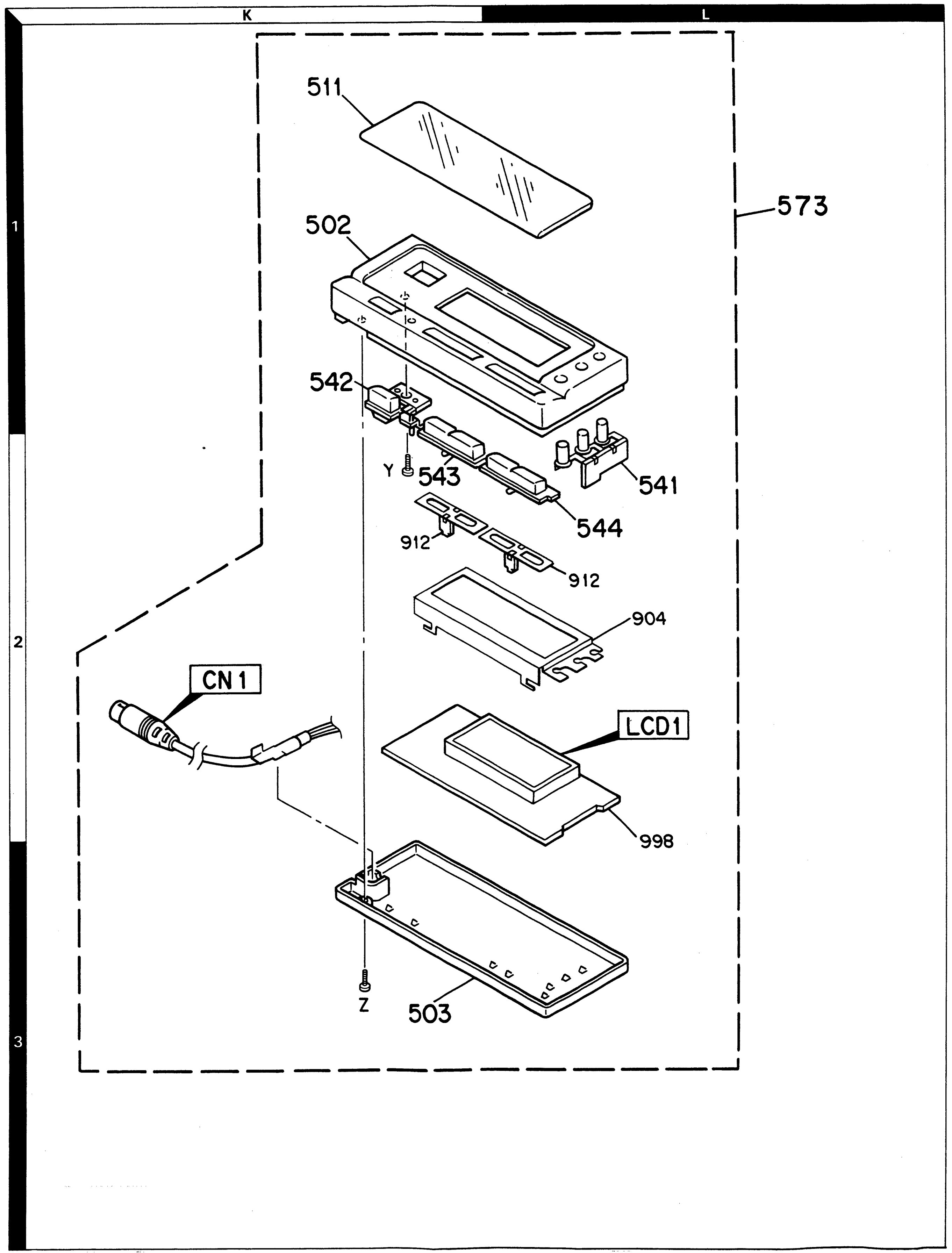
KDC-C63FM KDC-C63FM

EXPLODED VIEW (RF MODULATOR UNIT)


I
J
1
2
3
V
401
475
V
Vx2
922
931
921
W
CN104
CN102
CN101
SW302
W
Wx2
AT1
924
SW301
V
Vx2
905

V : N89-3006-45
W : N89-3008-46

EXPLODED VIEW (DISPLAY UNIT)


K
L
1
2
3
511
573
502
542
Y
543
541
544
912
912
904
CN1
LCD1
998
Z
503

PARTS LIST

⁎ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
KDC-C63FM				
201	1F		A01-2577-21	METALLIC CABINET
202	1G	⁎	A10-2295-53	CHASSIS CALKING ASSY
203	1H	⁎	A10-2298-63	CHASSIS CALKING ASSY
204	2G		A10-2300-33	CHASSIS
205	1H	⁎	A10-2301-33	CHASSIS
206	2H		A10-2302-22	CHASSIS
207	3G		A10-2303-14	CHASSIS CALKING ASSY
208	3F		A10-2344-13	CHASSIS ASSY
209	2E		A21-2325-32	DRESSING PANEL
CR1	3E	⁎	A70-0841-05	CARD REMOTE CONTROLLER ASSY
PA1	2E	⁎	A64-0516-12	PANEL ASSY
-			B46-0100-30	WARRANTY CARD
-			B46-0172-03	QUESTIONAIRE CARD
-			B58-1235-04	CAUTION CARD (BLISTER COVER)
-			B58-1236-04	CAUTION CARD (CORD).
-		⁎	B64-0586-00	INSTRUCTION MANUAL
211	2G		D10-2954-03	LEVER
212	2G		D10-2874-14	ARM ASSY
213	2H		D10-2876-34	ARM
214	1G		D10-2879-14	LEVER ASSY
215	2H		D10-2884-03	LEVER
216	3H		D10-2885-04	LEVER ASSY
217	2H		D12-0612-03	CAM
218	2G		D12-0613-03	CAM
219	3G		D13-1100-04	GEAR
220	3G		D13-1101-04	WORM
221	2G		D13-1139-04	GEAR
222	2G		D13-1140-04	GEAR
223	2H		D13-1141-03	GEAR
224	3G		D13-1142-04	GEAR
225	3G		D13-1143-13	GEAR
226	1H		D14-0625-04	ROLLER
228	2H		D39-0215-05	DAMPER
DC1	1E		E30-4138-05	CORD WITH PLUG (for CD CHANGER
DC2	3E		E30-3709-08	DC CORD ASSY (for RF MODULATOR
F1 ,2	3E		F06-3026-05	FUSE (3A) (a part of DC2)
240	2H		G01-2674-04	TORSION COIL SPRING
241	1G		G01-2675-04	EXTENSION SPRING
242	3H		G01-2676-14	EXTENSION SPRING
243	3H		G01-2677-14	EXTENSION SPRING
245	1G		G02-1142-04	FLAT SPRING
246	3G		G02-1176-14	FLAT SPRING
247	2G		G02-1177-14	FLAT SPRING
249	3E		H30-0501-08	MAGIC TAPE ASSY (20X60)(for RF
-		⁎	H02-0803-13	INNER CARTON CASE
-		⁎	H10-4503-02	FOAMED FIXTURE (for CD CHANGER
-		⁎	H10-4504-08	FORMED FIXTURE (for RF MODULA.
-		⁎	H13-1639-08	PROTECTION BOARD (for RF MODU.
-			H20-2012-03	BLISTER COVER (for CD CHANGER
-			H25-0003-03	PROTECTION BAG (240X350)(forRF
-			H25-0237-04	PROTECTION BAG (160X400)(forRF
-			H25-0337-04	PROTECTION BAG (180X300) CD-CH
-			H25-1115-04	PROTECTION BAG (for CD CHANGER
-		⁎	H54-0424-04	ITEM CARTON CASE
-		⁎	H64-0463-04	OUTER CARTON CASE
250	1E	⁎	J19-4566-32	HOLDER ASSY(MAGAZINE)(forCD-CH
251	1E	⁎	J19-4616-03	BRACKET (L) (for CD CHANGER)
252	1E	⁎	J19-4618-03	BRACKET (R) (for CD CHANGER)
253	1E	⁎	J21-7620-04	MOUNTING HARDWARE ASSY(forCD-C
254	1E	⁎	J69-0506-04	ADHESIVE TAPE (for CD CHANGER)
260	2F		K24-1452-24	KNOB (EJECT)
270	1E		N99-1611-05	SCREW SET (for CD CHANGER)
271	3E	⁎	N99-1634-08	SCREW SET (for RF MODULATOR)
-			N80-2006-45	SCREW (for DISC MAGAZINE) x6
A	3H		N89-2606-46	BINDING HEAD TAPTITE SCREW
B	1F		N09-4105-05	TAPTITE SCREW (3X7,ﾆｯｹﾙ,ﾜｯｸｽ)
C	3G		N35-3003-46	BINDING HEAD MACHINE SCREW
D	1H		N86-2605-46	BINDING HEAD TAPTITE SCREW
E	2H		N86-2005-46	BINDING HEAD TAPTITE SCREW
G	1H		N29-0205-04	RETAINING RING (1.5ﾏﾙ)
H	1H		N09-4126-05	MACHINE SCREW (Sﾀｲﾄ2X3.5ｸﾛﾒｰ)
J	2E		N09-4097-05	TAPTITE SCREW (2.6X3.5)
K	2G		N19-2022-04	FLAT WASHER
273	3E	⁎	T95-0219-08	DISPLAY UNIT ASSY (for RF MODU
M1	3G		T42-0720-05	DC MOTOR (UP/DOWN)
275	2E	⁎	W02-1481-05	RF MODULATOR UNIT ASSY
ME1	2G	⁎	X92-3100-04	MECHANISM ASSY
SUB-CIRCUIT UNIT (X13-8640-00)				
CN1			E40-9256-05	FLAT CABLE CONNCTOR (5-PIN)
S1 ,2			S40-1140-05	PUSH SWITCH
M3	2D		T42-0731-05	DC MOTOR (LOADING)
CONTROL CIRCUIT UNIT (X29-4040-00)				
C1			C90-2518-05	ELECTRO 2200UF 16WV
C2			CE04DW1A221M	ELECTRO 220UF 10WV
C3			CE04DW1C470M	ELECTRO 47UF 16WV
C4			CE04NW1H0R1M	ELECTRO 0.1UF 50WV
C5			CE04NW1C470M	ELECTRO 47UF 16WV
C6			CE04DW1A221M	ELECTRO 220UF 10WV
C7			CE04DW1C100M	ELECTRO 10UF 16WV
C8			CE04DW1A101M	ELECTRO 100UF 10WV
C9			CE04NW0J101M	ELECTRO 100UF 6.3WV
C10			CK73FB1H103K	CHIP C 0.010UF K
C11			CE04DW1H010M	ELECTRO 1.0UF 50WV
C12			CK73FB1H103K	CHIP C 0.010UF K
C13 ,14			CE04DW1A101M	ELECTRO 100UF 10WV
C15			CK73EB1H223K	CHIP C 0.022UF K
C16			CK73FB1H103K	CHIP C 0.010UF K
C17			CK73FB1H222K	CHIP C 2200PF K
C18			CK73EB1H223K	CHIP C 0.022UF K
C19			CK73FB1H103K	CHIP C 0.010UF K

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
C30			CK73FB1H222K	CHIP C 2200PF K
C31 ,32			CC73FCH1H100D	CHIP C 10PF D
C33			CK73FB1H103K	CHIP C 0.010UF K
C34			CE04DW1C100M	ELECTRO 10UF 16WV
C35 ,36			CK73FB1H103K	CHIP C 0.010UF K
C37 ,38			CK73FB1H471K	CHIP C 470PF K
C39 -42			CC73FCH1H181J	CHIP C 180PF J
C43 ,44			CE04DW1C100M	ELECTRO 10UF 16WV
C45 ,46			C93-1044-05	CERAMIC 2200PF K
CN1	3H		E56-0805-15	CYLINDRICAL RECEPTACLE (13-PIN
CN2			E40-9340-05	FLAT CABLE CONNCTOR (22-PIN)
L1 ,2			L33-0916-05	SMALL FIXED INDUCTOR (4.7mH)
L3 ,4			L92-0302-05	CHIP FERRITE
L5			L92-0305-05	FERRITE CORE
X1			L78-0529-05	RESONATOR (4.194MHz)
X2			L77-2011-15	CRYSTAL RESONATOR(16.9344MHZ)
L	3H		N89-3006-46	BINDING HEAD TAPTITE SCREW
R1 -5			RK73FB2A101J	CHIP R 100 J 1/10W
R6			RK73FB2A223J	CHIP R 22K J 1/10W
R7 ,8			RK73FB2A102J	CHIP R 1.0K J 1/10W
R9			RK73FB2A103J	CHIP R 10K J 1/10W
R10			RK73EB2B222J	CHIP R 2.2K J 1/8W
R11			RK73FB2A183J	CHIP R 18K J 1/10W
R12			RK73FB2A473J	CHIP R 47K J 1/10W
R13			RK73FB2A223J	CHIP R 22K J 1/10W
R14			RK73FB2A222J	CHIP R 2.2K J 1/10W
R15			RK73EB2B102J	CHIP R 1.0K J 1/8W
R16			RK73FB2A104J	CHIP R 100K J 1/10W
R18 ,19			RK73FB2A104J	CHIP R 100K J 1/10W
R20 -22			RK73FB2A472J	CHIP R 4.7K J 1/10W
R23			RK73FB2A223J	CHIP R 22K J 1/10W
R24			RK73FB2A104J	CHIP R 100K J 1/10W
R25			RK73FB2A102J	CHIP R 1.0K J 1/10W
R26 ,27			RK73FB2A104J	CHIP R 100K J 1/10W
R28			RK73FB2A154J	CHIP R 150K J 1/10W
R29			RK73FB2A223J	CHIP R 22K J 1/10W
R30			RK73FB2A472J	CHIP R 4.7K J 1/10W
R31			RK73EB2B331J	CHIP R 330 J 1/8W
R32			RK73FB2A182J	CHIP R 1.8K J 1/10W
R33			RK73FB2A223J	CHIP R 22K J 1/10W
R34			RK73EB2B561J	CHIP R 560 J 1/8W
R35			RK73EB2B473J	CHIP R 47K J 1/8W
R36 ,37			RK73FB2A104J	CHIP R 100K J 1/10W
R38 -40			RK73FB2A101J	CHIP R 100 J 1/10W
R45			RK73FB2A102J	CHIP R 1.0K J 1/10W
R46			RK73FB2A223J	CHIP R 22K J 1/10W
R47 ,48			RK73FB2A121J	CHIP R 120 J 1/10W
R61			RK73FB2A331J	CHIP R 330 J 1/10W
R62			RK73FB2A473J	CHIP R 47K J 1/10W
R63 -66			RK73FB2A103J	CHIP R 10K J 1/10W
R67 ,68			RK73FB2A752J	CHIP R 7.5K J 1/10W
R69 -72			RK73FB2A103J	CHIP R 10K J 1/10W
R73 ,74			RK73FB2A752J	CHIP R 7.5K J 1/10W
R75 ,76			RK73FB2A561J	CHIP R 560 J 1/10W
R77 ,78			RK73FB2A472J	CHIP R 4.7K J 1/10W
R79 ,80			RK73FB2A223J	CHIP R 22K J 1/10W
S1	3H		S40-1140-05	PUSH SWITCH
S2	3H		S74-0801-05	MICRO SWITCH
S3	3H		S70-0823-05	TACT SWITCH
M1	3G		T42-0720-05	DC MOTOR (UP/DOWN)
PH1			T95-0212-05	OPTO ISOLATOR
D1			MA8091-M	ZENER DIODE
D2			MA8056-M	ZENER DIODE
D3			DA204K	DIODE
D4			AM01Z	DIODE
D4			ERA15-01	DIODE
D5			MA8091-M	ZENER DIODE
D6 ,7			MA8056-M	ZENER DIODE
D8			MA110	DIODE
D10			MA8075-M	ZENER DIODE
D11			MA8056-M	ZENER DIODE
D12			DAP202K	DIODE
D13			AM01Z	DIODE
D13			ERA15-01	DIODE
IC1	3H		M5278D05	IC(VOLTAGE REGULATOR)
IC2			TA78L05F	IC(5V VOLTAGE REGULATOR)
IC3		⁎	UPD75112GF-E63	MI-COM IC
IC4			TA7288P	ANALOGUE IC
IC5			S-80737AN-D1	IC(VOLTAGE DETECTOR)
IC6			AK4318-VS	MOS-IC
IC7			NJM4565MD	IC(OP AMP X2)
Q1			DTC124EK	DIGITAL TRANSISTOR
Q1			XDC124EK	DIGITAL TRANSISTOR
Q2			DTA114EK	DIGITAL TRANSISTOR
Q3			DTC124EK	DIGITAL TRANSISTOR
Q3			XDC124EK	DIGITAL TRANSISTOR
Q4			DTA124EK	DIGITAL TRANSISTOR
Q4			XDA124EK	DIGITAL TRANSISTOR
Q5	3H		2SB941	TRANSISTOR
Q6			2SC2412K	TRANSISTOR
Q7			DTC124EK	DIGITAL TRANSISTOR
Q7			XDC124EK	DIGITAL TRANSISTOR
Q8			2SA1362(Y)	TRANSISTOR
Q9			2SD1119	TRANSISTOR
Q10			DTA124EK	DIGITAL TRANSISTOR
Q10			XDA124EK	DIGITAL TRANSISTOR
Q11 ,12			DTC124EK	DIGITAL TRANSISTOR
Q11 ,12			XDC124EK	DIGITAL TRANSISTOR
Q13 ,14			2SD2114K	TRANSISTOR
Q15			2SA1037K	TRANSISTOR
Q16			DTC124EK	DIGITAL TRANSISTOR
Q16			XDC124EK	DIGITAL TRANSISTOR
TH1			NTH5G40B333K01	THERMISTOR
CD PLAYER UNIT (X32-4100-00)				
D2 ,3		⁎	B30-1426-05	LED

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Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
C1			CK73EB1E104K	CHIP C 0.10UF K
C2			C92-0012-05	CHIP-TAN 22UF 6.3WV
C3			CK73EB1C105K	CHIP C 1.0UF K
C4			C92-1020-05	ELECTRO 10UF 6.3WV
C5			CC73FCH1H020C	CHIP C 2.0PF C
C6			CK73FB1C104K	CHIP C 0.10UF K
C8			CK73EB1C105K	CHIP C 1.0UF K
C9			CC73FCH1H101J	CHIP C 100PF J
C10			CK73FB1H682K	CHIP C 6800PF K
C11 ,12			CK73FB1H222K	CHIP C 2200PF K
C13 ,14			CK73EB1E104K	CHIP C 0.10UF K
C15			CK73FB1E273KTA	CHIP C 0.027UF K
C16			CC73FCH1H221J	CHIP C 220PF J
C17			CK73FB1H471K	CHIP C 470PF K
C18			CK73FB1H472K	CHIP C 4700PF K
C19			CK73EB1H683K	CHIP C 0.068UF K
C20 ,21			CK73EB1C105K	CHIP C 1.0UF K
C22			CC73FSL1H102J	CHIP C 1000PF J
C23			CK73FB1H223KTA	CHIP C 0.022UF K
C24			CK73FB1H123K	CHIP C 0.012UF K
C25			CK73EB1C334K	CHIP C 0.33UF K
C27			CK73EB1C105K	CHIP C 1.0UF K
C30 ,31			CK73FB1H472K	CHIP C 4700PF K
C32			CK73EB1C105K	CHIP C 1.0UF K
C34			CK73EB1E104K	CHIP C 0.10UF K
C35		⁎	C92-1332-05	ELECTRO 10UF 16WV
C40			CK73EB1C105K	CHIP C 1.0UF K
C41 ,42			CK73FB1C104K	CHIP C 0.10UF K
CN1			E40-9414-05	FLAT CABLE CONNCTOR (15-PIN)
CN2			E40-9339-05	FLAT CABLE CONNCTOR (22-PIN)
CN3			E40-9256-05	FLAT CABLE CONNCTOR (5-PIN)
L1			L40-1001-31	SMALL FIXED INDUCTOR(10UH)
L2 -4			L33-0916-05	SMALL FIXED INDUCTOR(4.7UF)
X1			L78-0528-05	RESONATOR (8.38MHz)
R1			RK73FB2A820J	CHIP R 82 J 1/10W
R2 ,3			RK73FB2A154J	CHIP R 150K J 1/10W
R4			RK73FB2A183J	CHIP R 18K J 1/10W
R5			RK73FB2A243J	CHIP R 24K J 1/10W
R6 ,7			RK73FB2A155J	CHIP R 1.5M J 1/10W
R8			RK73EB2B100J	CHIP R 10 J 1/8W
R9			RK73FB2A683J	CHIP R 68K J 1/10W
R10 ,11			RK73FB2A682J	CHIP R 6.8K J 1/10W
R12			RK73FB2A273J	CHIP R 27K J 1/10W
R13			RK73FB2A223J	CHIP R 22K J 1/10W
R14			RK73FB2A273J	CHIP R 27K J 1/10W
R15			RK73FB2A754J	CHIP R 750K J 1/10W
R17			RK73FB2A224J	CHIP R 220K J 1/10W
R18			RK73FB2A104J	CHIP R 100K J 1/10W
R19			RK73FB2A155J	CHIP R 1.5M J 1/10W
R20 ,21			RK73FB2A104J	CHIP R 100K J 1/10W
R22			RK73FB2A124J	CHIP R 120K J 1/10W
R23			RK73FB2A681J	CHIP R 680 J 1/10W
R28			RK73FB2A274J	CHIP R 270K J 1/10W
R33			RK73FB2A752J	CHIP R 7.5K J 1/10W

Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
R34			RK73FB2A102J	CHIP R 1.0K J 1/10W
R35			RK73FB2A752J	CHIP R 7.5K J 1/10W
R36			RK73FB2A102J	CHIP R 1.0K J 1/10W
R37			RK73FB2A683J	CHIP R 68K J 1/10W
R38			RK73FB2A243J	CHIP R 24K J 1/10W
R39			RK73FB2A681J	CHIP R 680 J 1/10W
R40			RK73FB2A331J	CHIP R 330 J 1/10W
R41			RK73FB2A392J	CHIP R 3.9K J 1/10W
R42			RK73FB2A223J	CHIP R 22K J 1/10W
R45			RK73FB2A331J	CHIP R 330 J 1/10W
R50			RK73FB2A472J	CHIP R 4.7K J 1/10W
R51			RK73FB2A333J	CHIP R 33K J 1/10W
R52			RK73FB2A241J	CHIP R 240 J 1/10W
R53			RK73FB2A472J	CHIP R 4.7K J 1/10W
R54			RK73FB2A102J	CHIP R 1.0K J 1/10W
R55			RK73FB2A103J	CHIP R 10K J 1/10W
R56			RK73FB2A223J	CHIP R 22K J 1/10W
R57			RK73FB2A104J	CHIP R 100K J 1/10W
R58			RK73FB2A223J	CHIP R 22K J 1/10W
R59 ,60			RK73FB2A104J	CHIP R 100K J 1/10W
R62 -68			RK73FB2A101J	CHIP R 100 J 1/10W
R69			RK73EB2B331J	CHIP R 330 J 1/8W
R72 ,73			RK73FB2A333J	CHIP R 33K J 1/10W
R74			RK73EB2B101J	CHIP R 100 J 1/8W
R75			RK73FB2A474J	CHIP R 470K J 1/10W
S1			S74-0801-05	MICRO SWITCH (SLED)
M1	3A		T42-0729-34	MOTOR ASSY (SPINDLE)
M2	3B		T42-0731-05	DC MOTOR (SLED)
D1			DAP202K	DIODE
D4 -6			DAP202K	DIODE
IC1			AN8806SB	ANALOGUE IC
IC2			MN662720RB	MOS-IC
IC3		⁎	UPD78002BGC627	MI-COM IC
IC4			BA6398FP	ANALOGUE IC
PH1 ,2			PT461T	PHOTO TRANSISTOR
Q1 ,2			2SA1362(Y)	TRANSISTOR
Q3			2SA1037K	TRANSISTOR
Q6			DTC124EK	DIGITAL TRANSISTOR
Q6			XDC124EK	DIGITAL TRANSISTOR
TH1			NTH5G40B333K01	THERMISTOR
MECHANISM ASS'Y (X92-3100-04)				
10	1C		A10-2288-53	CHASSIS ASSY
11	2D		A10-2293-23	CHASSIS CALKING ASSY
12	2A	⁎	A10-2283-63	CHASSIS ASSY
13	1C		D10-2943-24	ARM ASSY
14	2D		D10-2946-04	ARM
15	2D		D10-2947-04	ARM
17	3C		D10-2844-13	LEVER ASSY
18	3C		D10-2846-24	LEVER ASSY
19	3D		D10-2848-24	LEVER ASSY
20	1D		D10-2850-34	SLIDER ASSY
21	1D		D10-2852-04	LEVER
22	1C		D10-2942-03	LEVER

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KDC-C63FM

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23	2D		D10-2931-14	ARM ASSY
24	2D		D10-2855-14	ARM ASSY
25	2A		D10-2857-23	LEVER
26	2B		D10-2949-03	LEVER
27	2A		D10-2859-04	LEVER
28	2B		D10-2860-04	LEVER
29	1B	⁎	D10-2894-43	LEVER
30	1B	⁎	D10-2895-43	ARM
33	2C	⁎	D10-2905-62	LEVER ASSY
34	1C		D12-0610-03	CAM
35	1D		D12-0607-23	CAM
36	2D		D13-1125-34	WORM
37	3B		D13-1126-04	GEAR
38	2B		D13-1127-04	GEAR
39	2D		D13-1128-04	GEAR
40	2D		D13-1129-04	GEAR
41	2D		D13-1130-04	GEAR
42	2D		D13-1131-04	GEAR
43	2D		D13-1132-04	GEAR
44	2D		D13-1133-04	GEAR
45	2C		D13-1134-04	GEAR
46	3C		D13-1135-04	GEAR
47	3D		D13-1136-04	GEAR
48	3D		D13-1137-04	GEAR
49	3C		D13-1138-04	GEAR
50	3C		D14-0638-33	ROLLER
51	3C		D14-0639-34	ROLLER
52	1D		D14-0641-04	ROLLER
53	2C		D14-0647-04	ROLLER
54	2C		D14-0640-04	ROLLER
55	2C		D21-2190-14	SHAFT
56	3C		D21-2191-24	SHAFT
57	3C		D23-0914-14	RETAINER
58	3D		D39-0216-23	DAMPER
59	2B		D19-0606-14	LEAD SCREW
60	1B		G01-2687-04	EXTENSION SPRING
63	2B		G01-2673-24	TORSION COIL SPRING
66	2D		G01-2682-04	TORSION COIL SPRING
67	2D		G01-2683-04	EXTENSION SPRING
68	2D		G01-2684-04	EXTENSION SPRING
69	3C		G01-2685-14	EXTENSION SPRING
70	1D		G01-2686-04	EXTENSION SPRING
71	1A	⁎	G02-1207-04	FLAT SPRING ASSY
72	2D		G02-1156-04	FLAT SPRING
73	2D		G01-2709-04	TORSION COIL SPRING
74	2A	⁎	G02-1213-03	FLAT SPRING
75	3B		G02-1172-14	FLAT SPRING
76	2B		G02-1173-13	FLAT SPRING ASSY
78	2B		G02-1192-04	FLAT SPRING
79	2D		G02-1193-04	FLAT SPRING
80	1A		J11-0603-23	CLAMPER
81	3C		J19-4567-03	HOLDER
82	3C		J21-7479-24	MOUNTING HARDWARE ASSY
83	2D	⁎	J21-7481-24	MOUNTING HARDWARE ASSY
84	2D		J30-1027-04	SPACER

Ref. No. 参照番号	Address 位　置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
86	2C		J90-0751-02	GUIDE
92	2C		W10-0703-14	PRISM
FC1	2D		E39-0041-15	FLAT CABLE
FC2	3H		E39-0042-25	FLAT CABLE
FPC5	2B	⁎	J84-0051-05	FLEXIBLE PRINTED WIRING BOARD
A	1D		N09-4126-05	MACHINE SCREW (2X3.5,Cﾀｲﾄ,ｸﾛ)
B	2A		N39-1722-46	PAN HEAD MACHIN SCREW
C	1A		N39-2020-46	PAN HEAD MACHIN SCREW
D	3B		N82-2005-46	BINDING HEAD TAPTITE SCREW
E	3C		N19-2022-04	FLAT WASHER
F	3C		N19-2023-04	FLAT WASHER
G	1D		N19-2049-04	FLAT WASHER
H	3C		N19-2048-04	FLAT WASHER
K	1D		N29-0501-05	RETAINING RING
L	2D		N39-2025-46	PAN HEAD MACHIN SCREW
M1	3A		T42-0729-34	MOTOR ASSY (SPINDLE)
M2,3	3B,2D		T42-0731-05	DC MOTOR (SLED, LOADING)
PU1	2B	⁎	T25-0208-05	OPTICAL PICKUP HEAD

RF MODULATOR UNIT (W02-1481-05)

Ref. No. 参照番号	Address 位　置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
401	1J	⁎	A01-2598-08	CASE
AT1	2J		E30-3707-08	ANTENNA CORD ASSY
V	1J		N89-3006-45	SCREW (3X6)
W	2J		N89-3008-46	SCREW (3X8)
475	1J	⁎	W02-1481-05	RF MODULATOR UNIT ASSY
C101-104			CK73FB1H223K	CHIP C 0.022UF K
C105			CE04DW1H4R7M	ELECTRO 4.7UF 50WV
C106			C90-1401-05	ELECTRO 2200UF 16WV
C107			CE04DW1E101M	ELECTRO 100UF 25WV
C108,109			CE04DW1A101M	ELECTRO 100UF 10WV
C110			CK73FB1H223K	CHIP C 0.022UF K
C111-115			CK73FB1H102K	CHIP C 1000PF K
C116			CE04DW1E470M	ELECTRO 47UF 25WV
C117			CE04DW1H100M	ELECTRO 10UF 50WV
C201			CE04DW1E221M	ELECTRO 220UF 25WV
C202			CE04DW1HR47M	ELECTRO 0.47UF 50WV
C203			C93-1067-08	CERAMIC 0.056UF
C204			CC73FCH1H330J	CHIP C 33PF J
C205			CK73FB1H473K	CHIP C 0.047UF K
C206			CE04DW1E101M	ELECTRO 100UF 25WV
C207			CE04DW1HR22M	ELECTRO 0.22UF 50WV
C208			CE04DW1A101M	ELECTRO 100UF 10WV
C209			CE04DW1A221M	ELECTRO 220UF 10WV
C210			CE04DW1A101M	ELECTRO 100UF 10WV
C211			CE04DW1HR22M	ELECTRO 0.22UF 50WV
C212			CE04DW1E221M	ELECTRO 220UF 25WV
C213			CE04DW1H100M	ELECTRO 10UF 50WV
C214			CC73FCH1H330J	CHIP C 33PF J
C215			CE04DW1H010M	ELECTRO 1.0UF 50WV
C216			CE04DW1H100M	ELECTRO 10UF 50WV

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PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
C217			CE04DW1E470M	ELECTRO 47UF 25WV
C301,302			CK73FB1H222K	CHIP C 2200PF K
C303,304			CE04DW1H4R7M	ELECTRO 4.7UF 50WV
C305,306			CC73FCH1H101J	CHIP C 100PF J
C307			CE04DW1H2R2M	ELECTRO 2.2UF 50WV
C308			CE04DW1H2R2M	ELECTRO 2.2UF 50WV
C311,312			CK73FB1H472K	CHIP C 4700PF K
C313,314			CK73FB1H102K	CHIP C 1000PF K
C315,316			C93-1042-08	CERAMIC 0.15UF
C317,318			CE04DW1H010M	ELECTRO 1.0UF 50WV
C319			CE04DW1H100M	ELECTRO 10UF 50WV
C320			CK73FB1H103K	CHIP C 0.010UF K
C321			CC73FCH1H100J	CHIP C 10PF J
C322			CC73FCH1H221J	CHIP C 220PF J
C324			CK73FB1H103K	CHIP C 0.010UF K
C325			CC73FCH1H221J	CHIP C 220PF J
C326			CK73FB1H222K	CHIP C 2200PF K
C327			CE04DW1H4R7M	ELECTRO 4.7UF 50WV
C328			CK73FB1H102K	CHIP C 1000PF K
C329		*	CC73FUJ1H080	CHIP C 8.0PF J
C330		*	CC73FUJ1H040	CHIP C 4.0PF J
C331			CC73FUJ1H680J	CHIP C 68PF J
C332			CC73FUJ1H151J	CHIP C 150PF J
C333			CK73FB1H103K	CHIP C 0.010UF K
C334			CK73FB1H102K	CHIP C 1000PF K
C335			CK73FB1H103K	CHIP C 0.010UF K
C336			CC73FCH1H100J	CHIP C 10PF J
C337			CK73FB1H103K	CHIP C 0.010UF K
C339,340			CC73FCH1H471J	CHIP C 470PF J
C341,342			CK73EB1H222K	CHIP C 2200PF K
C345,346			CK73FB1H392K	CHIP C 3900PF K
C347,348			C93-1042-08	CERAMIC 0.15UF
C349,350			CE04DW1HR47M	ELECTRO 0.47UF 50WV
TC301,302			C05-0508-08	TRIMMER 20P
CN101	2J		E56-0811-05	CONNECTOR 8P
CN102	2J		E56-0805-15	CONNECTOR 13P
CN104	2J		E08-0413-05	CONNECTOR 4P
CN301		*	E39-0121-08	CONNECTOR ASSY 3P
BPF301			L79-0917-08	FILTER 87-90M
L101			L33-0934-08	CHOKE TRANS
L305			L33-0980-08	SMALL FIXED INDUCTOR 2.2uH
L306			L33-0979-08	SMALL FIXED INDUCTOR 10uH
L307			L33-0970-08	SMALL FIXED INDUCTOR 0.82uH
L308			L33-0973-08	SMALL FIXED INDUCTOR 0.68uH
L309			L33-0972-08	SMALL FIXED INDUCTOR 2.7uH
L310			L33-0976-08	SMALL FIXED INDUCTOR 2.2uH
L311,312			L39-1008-08	COIL 33mH
X101			L78-0518-08	RESONATOR 4.19MHz
X301			L77-2018-08	CRYSTAL RESONATOR 38KHz
X302			L78-0517-08	RESONATOR 29.45MHz
R107			RK73FB2A101J	CHIP R 100 J 1/10W
R108			RK73FB2A472J	CHIP R 4.7K J 1/10W
R109			RK73FB2A223J	CHIP R 22K J 1/10W
R121			RK73FB2A103J	CHIP R 10K J 1/10W

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
R122			RK73FB2A203J	CHIP R 20K J 1/10W
R123			RK73FB2A222J	CHIP R 2.2K J 1/10W
R129			RK73FB2A223J	CHIP R 22K J 1/10W
R130			RK73FB2A102J	CHIP R 1.0K J 1/10W
R131			RK73FB2A220J	CHIP R 22 J 1/10W
R132			RD14DB2H6R2J	SMALL-RD 6.2 J 1/2W
R133			RK73FB2A104J	CHIP R 100K J 1/10W
R201			RK73FB2A153J	CHIP R 15K J 1/10W
R202			RK73FB2A472J	CHIP R 4.7K J 1/10W
R203			RK73FB2A333J	CHIP R 33K J 1/10W
R204			RK73FB2A123J	CHIP R 12K J 1/10W
R205			RK73FB2A472J	CHIP R 4.7K J 1/10W
R207			RK73FB2A393J	CHIP R 39K J 1/10W
R208			RK73FB2A103J	CHIP R 10K J 1/10W
R209-211			RK73FB2A472J	CHIP R 4.7K J 1/10W
R212			RK73FB2A272J	CHIP R 2.7K J 1/10W
R213			RK73FB2A222J	CHIP R 2.2K J 1/10W
R214			RK73FB2A472J	CHIP R 4.7K J 1/10W
R215			RK73FB2A273J	CHIP R 27K J 1/10W
R216			RK73FB2A103J	CHIP R 10K J 1/10W
R217			RK73FB2A472J	CHIP R 4.7K J 1/10W
R218			RK73FB2A153J	CHIP R 15K J 1/10W
R219			RK73FB2A334J	CHIP R 330K J 1/10W
R220			RK73FB2A223J	CHIP R 22K J 1/10W
R221			RK73FB2A102J	CHIP R 1.0K J 1/10W
R222			RK73FB2A220J	CHIP R 22 J 1/10W
R303,304			RK73FB2A562J	CHIP R 5.6K J 1/10W
R305,306			RK73FB2A272J	CHIP R 2.7K J 1/10W
R307,308			RK73FB2A123J	CHIP R 12K J 1/10W
R309,310			RK73FB2A393J	CHIP R 39K J 1/10W
R311,312			RK73FB2A122J	CHIP R 1.2K J 1/10W
R313,314			RK73FB2A272J	CHIP R 2.7K J 1/10W
R315,316			RK73FB2A102J	CHIP R 1.0K J 1/10W
R317,318			R92-2052-05	CHIP R 0 J 1/10W
R319,320			RK73FB2A622J	CHIP R 6.2K J 1/10W
R321,322			RK73FB2A682J	CHIP R 6.8K J 1/10W
R323,324			RK73FB2A753J	CHIP R 75K J 1/10W
R325,326			RK73FB2A472J	CHIP R 4.7K J 1/10W
R327			RK73FB2A123J	CHIP R 12K J 1/10W
R328			RK73FB2A271J	CHIP R 270 J 1/10W
R329			RK73FB2A102J	CHIP R 1.0K J 1/10W
R330			RK73FB2A124J	CHIP R 120K J 1/10W
R331,332			RK73FB2A103J	CHIP R 10K J 1/10W
R333			RK73FB2A153J	CHIP R 15K J 1/10W
R334			RK73FB2A560J	CHIP R 56 J 1/10W
R335			RK73FB2A221J	CHIP R 220 J 1/10W
R336			RK73FB2A243J	CHIP R 24K J 1/10W
R337			RK73FB2A183J	CHIP R 18K J 1/10W
R338			RK73FB2A101J	CHIP R 100 J 1/10W
R339			RK73FB2A272J	CHIP R 2.7K J 1/10W
R340			RK73FB2A101J	CHIP R 100 J 1/10W
R341,342			RK73FB2A752J	CHIP R 7.5K J 1/10W
R345			R92-2052-05	CHIP R 0 J 1/10W
R346			RK73FB2A154J	CHIP R 150K J 1/10W
R347,348			RK73FB2A182J	CHIP R 1.8K J 1/10W

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KDC-C63FM

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
R349			RK73FB2A302J	CHIP R 3.0K J 1/10W
R350			RK73FB2A512J	CHIP R 5.1K J 1/10W
R351,352			RK73FB2A911J	CHIP R 910 J 1/10W
VR302			R12-3648-08	TRIMING POT. 33K
VR303			R12-3647-08	TRIMING POT. 330K
RY301			S76-0802-08	RELAY
SW301	2J		S62-0830-08	SLIDE SWITCH
SW302	2I		S62-0807-08	SLIDE SWITCH
D101			DSC30TC	DIODE
D102-104			DSK10C	DIODE
D105			MTZ6.2J(B)	ZENER DIODE
D106			1SS131	DIODE
D107			MTZ5.6J(B)	ZENER DIODE
D108,109			1SS318	DIODE
D110			1SS131	DIODE
D111			DSK10C	DIODE
D201,202			DA204K	DIODE
D203,204			1SS131	DIODE
D205			DSK10C	DIODE
D206			DA204K	DIODE
D207			1SS131	DIODE
D301			KV1450	DIODE
IC101		*	75004GB-F68	IC
IC102			PST520F	IC(LOW POWER RESET)
IC103			TC74HC04AP	IC(HEX INVERTER)
IC201			NJM4565M	IC(OP AMP X2)
IC202			NJM78L05A	IC(VOLTAGE REGULATOR/ +5V)
IC301			BA1405F	IC
Q101			2SB1240(Q,R)	TRANSISTOR
Q102			DTC124ES	DIGITAL TRANSISTOR
Q103			2SA1782T/U	TRANSISTOR
Q104			DTC124ES	DIGITAL TRANSISTOR
Q105			2SB1009(P,Q)	TRANSISTOR
Q106			2SC4640T/U	TRANSISTOR
Q107			2SB1237(Q,R)	TRANSISTOR
Q108			DTC114EK	DIGITAL TRANSISTOR
Q201-203			2SC2412K(R)	TRANSISTOR
Q204			2SC4640T/U	TRANSISTOR
Q205			DTC114GS	DIGITAL TRANSISTOR
Q206			2SC2412K(R)	TRANSISTOR
Q207			2SB1237(Q,R)	TRANSISTOR
Q208			DTC114EK	DIGITAL TRANSISTOR
Q301,302			2SA1037K(R)	TRANSISTOR
Q303,304			DTC323TK	DIGITAL TRANSISTOR
Q305			2SA1037K(R)	TRANSISTOR
Q306,307			2SC2059K(P)	TRANSISTOR

DISPLAY UNIT (T95-0219-08)

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格
502	1K	*	A02-1445-08	FRONT CASE
503	3K	*	A02-1446-08	REAR CASE
511	1K	*	B10-1624-08	FRONT GLASS ASSY
541	2L	*	K25-0713-08	KNOB (REP, RDM, PLAY/STOP)
542	1K	*	K29-5576-08	KNOB ASSY (POWER)
543	2K	*	K29-5577-08	KNOB (DISC)
544	2L	*	K29-5578-08	KNOB (TRACK)
Y	2K	*	N79-2040-45	SCREW (2X4)
Z	3K	*	N79-2080-45	SCREW (2X8)
573	1L	*	T95-0219-08	DISPLAY UNIT ASSY (for RF MODU
LCD1	2L	*	B38-0632-08	LCD
C1			CK73GB1H681K	CHIP C 680PF K
C2			CK73FB1H223KTA	CHIP C 0.022UF K
C3			CK73FB1E104K	CHIP C 0.10UF K
C4			C92-0048-05	ELECTRO 100UF 6.3WV
C5 ,6			CC73GCH1H101J	CHIP C 100PF J
C7			CK73FB1E104K	CHIP C 0.10UF K
CN1			E30-4277-08	PIN CORD ASSY 8P
R1			RK73GB1J513J	CHIP R 51K J 1/16W
R2 -5			RK73GB1J223J	CHIP R 22K J 1/16W
R6			RK73GB1J473J	CHIP R 47K J 1/16W
R7 -15			RK73FB2A470J	CHIP R 47 J 1/10W
SW1 -9		*	S70-0828-08	TACT SWITCH
D1 -5			DA204K	DIODE
IC1		*	LC75821W	IC
IC2		*	PNA4602M	IC
IC3		*	UPD6124A	IC
LED1-18		*	B30-1459-08	LED

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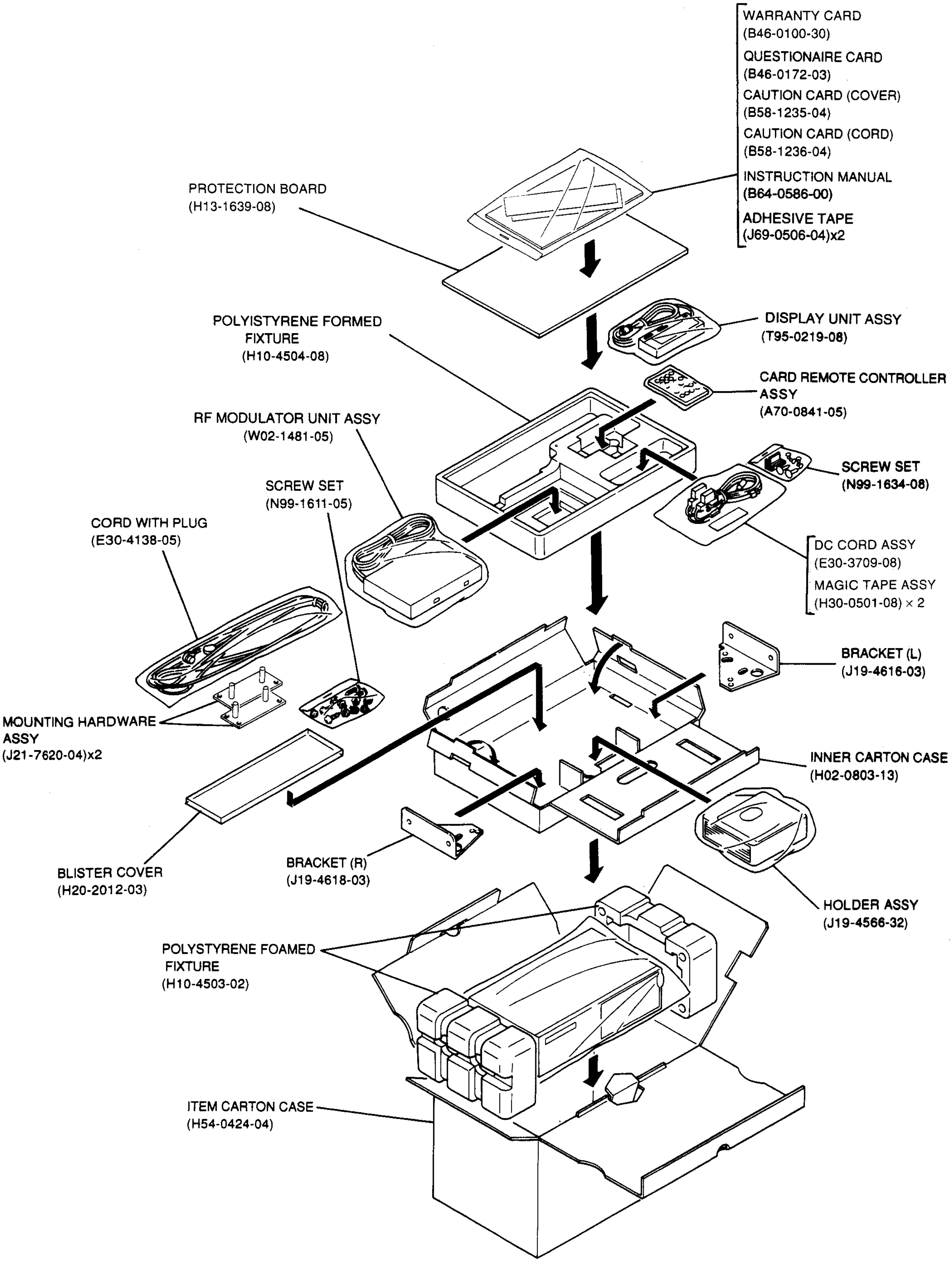
PACKING


WARRANTY CARD
(B46-0100-30)
QUESTIONAIRE CARD
(B46-0172-03)
CAUTION CARD (COVER)
(B58-1235-04)
CAUTION CARD (CORD)
(B58-1236-04)
INSTRUCTION MANUAL
(B64-0586-00)
ADHESIVE TAPE
(J69-0506-04)x2
PROTECTION BOARD
(H13-1639-08)
POLYISTYRENE FORMED
FIXTURE
(H10-4504-08)
DISPLAY UNIT ASSY
(T95-0219-08)
CARD REMOTE CONTROLLER
ASSY
(A70-0841-05)
RF MODULATOR UNIT ASSY
(W02-1481-05)
SCREW SET
(N99-1634-08)
SCREW SET
(N99-1611-05)
CORD WITH PLUG
(E30-4138-05)
DC CORD ASSY
(E30-3709-08)
MAGIC TAPE ASSY
(H30-0501-08) × 2
BRACKET (L)
(J19-4616-03)
MOUNTING HARDWARE
ASSY
(J21-7620-04)x2
INNER CARTON CASE
(H02-0803-13)
BLISTER COVER
(H20-2012-03)
BRACKET (R)
(J19-4618-03)
HOLDER ASSY
(J19-4566-32)
POLYSTYRENE FOAMED
FIXTURE
(H10-4503-02)
ITEM CARTON CASE
(H54-0424-04)

KDC-C63FM

SPECIFICATIONS

Specifications subject to change without notice.

Disc Section

Laser Diode	GaAlAs (λ=780 nm)
Digital Filter (D/A)	8 Times Over Sampling
D/A Converter	1 bit
Spindle speed	500 ~ 200 rpm (CLV)
Wow & Flutter	Below Measurable Limit
Modulating Frequency (Hi)	88.7 MHz
(Lo)	88.3 MHz

General

Operating Voltage	14.4 V (11 ~ 16 V)
Current consumption	1.4 A
Operating Temperature	–10 ~ 50 °C
Size (W × H × D)	
(CD auto changer)	281 × 76 × 171 mm (11-1/16 × 3 × 6-3/4 in.)
(Controller)	54 × 85 × 5 mm (2-1/8 × 3-3/8× 3/16 in.)
(Display unit)	105 × 40 × 18 mm (4-1/8 × 1-9/16 × 11/16 in.)
(Hide Away unit)	150 × 30 × 120 mm (5-7/8 × 1-3/16 × 4-3/4 in.)
Weight	
(CD auto changer)	3.0 kg (6.6 lbs)
(Controller)	0.028 kg (0.062 lbs)
(Display unit)	0.125 kg (0.275 lbs)
(Hide Away unit)	0.645 kg (1.419 lbs)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

KENWOOD strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

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